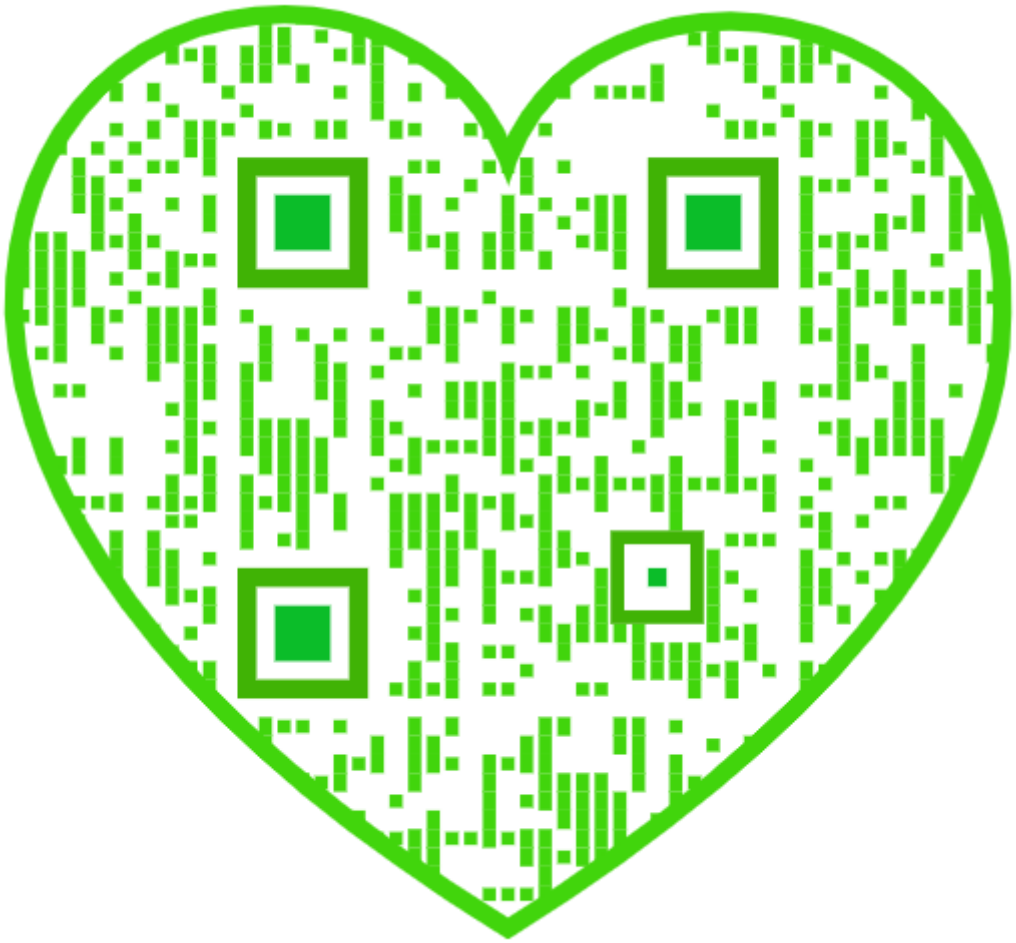
TT 520
.A14



Garment Cutting Self-Taught,

A BOOK CONTAINING

INSTRUCTIONS AND DIAGRAMS,

SHOWING HOW TO USE THE

ABERCROMBIE SCALE.

BY

EMMA ABERCROMBIE.

EMMA ABERCROMBIE, Sole Proprietress,

COAL CENTRE, WASHINGTON CO., PA.

COPYRIGHT 1889

—BY—

EMMA ABERCROMBIE.

All Rights Reserved.

PITTSBURGH PA.

MACKENZIE DAVIS & CO., LITHOGRAPHERS, 61 DIAMOND STREET

PREFACE.

Garment Cutting Self-taught teaches how to use the Abercrombie Scale which believe to be the best and easiest method of garment cutting. Garments cut by our system are always sure to fit. We cut by measure which is the only correct way. We claim that a dress should be something more than tight fitting, that in order to please persons possessed of good taste each piece should be symmetrical. The Abercrombie Scale combines all the curves required to produce the necessary symmetry. Our system is not confined to the cutting of ladies garments alone, but will be found invaluable in cutting men's and children's garments as well. Fully realizing that all mothers are especially in need of a system for cutting garments for their growing children, we have taken great care to have the children's department full and comprehensive. We have aimed to make this book so plain that any one can learn to use the Scale without a teacher by simply following the directions contained in it. We believe that our effort has met with success. We now take pleasure in offering to the public our system at a price so reasonable as to bring it within the reach of all.

THE AUTHOR.

HOW TO LEARN TO DRAFT.

Take your measure book and find the measures to be used for full size drafting. These measures should be used until you have learned how to draft the whole of full size drafting.

Be sure to learn each instruction in the exact order they are given, as we have arranged them so as to require as few movements as possible.

Never move the scale except when necessary, place the drafting sent you with outfit on the table so that Fig. 1 will be before you. Read one instruction at a time and then move the scale according to direction, or if the scale is not required to be moved, observe carefully where the line or dot is to be made, but do not make any marks on the drafting, as they are already made. The object is to learn how to follow the instructions, so that when you have gone over this a sufficient number of times you can take drafting paper and make a drafting like the one you have been studying.

Do not try to learn too much at once, as you will save time by getting it perfect as you go. Do not begin Fig. 2, until you have Fig. 1 perfect. After you have finished Fig. 1, then learn Fig. 2, then Fig. 3, or dotted lines in Fig. 1. When you have learned to draft, take some ones measures according to directions for taking measures which you will find in measure book.

Draft the pattern, using the measures you have taken.

TRACING AND BASTING.

Pin your front drafting to the lining. When you have traced the front finish by tracing across $\frac{1}{4}$ inch dot along waist line for about $\frac{3}{8}$ of an inch. Be sure to trace the darts. When you have finished the tracing, remove the drafting.

In cutting out the fronts, leave the left side $\frac{1}{4}$ of an inch wider than tracing in front, as this is the button side and requires to be $\frac{1}{4}$ of an inch wider in order to prevent the dress from gaping. Cut the right side in tracing. The ends of the button holes should be $\frac{1}{4}$ an inch from edge. The buttons should be put $\frac{1}{2}$ an inch from edge in order to secure a perfect fit.

The darts must never be cut in the tracing. They may be trimmed and pressed after they have been seamed. When not trimmed, they should be pressed toward the front. Make a notch at the tracing made across $\frac{1}{4}$ inch dot on waist line. This notch should be small so as not to cause the dress to tear at waist line. When you cut the other pieces of the lining, trace them at the dots on waist line and make a notch in each tracing, as this is necessary in order to make the waist line meet around the entire body.

When you have finished cutting the lining place the front lining upon the dress goods. Leave the goods the hem wider than the lining. The hem should usually be an inch wide, but if very large buttons are used, it requires to be made wider.

It is the best to cut the goods a trifle larger than the lining, then after you have basted the lining to the goods, trim it to fit the lining. Each piece should be cast as soon as it is trimmed so as to prevent raveling.

The seams should always be made $\frac{3}{8}$ of an inch.

When you baste the darts, baste in the straight tracing, then double at the basting and finish by basting in the curved tracing. As the basting should never be in the way of the sewing and tracing wheels often cut the lining, we have drafted our darts a little smaller than they should be sewed. Sew them $\frac{1}{8}$ of an inch inside of the tracing. Point them off at the top by continuing to point them for $\frac{1}{2}$ of an inch above top of tracing.

You will notice that in all dresses for persons having shoulders measuring four or more inches the front shoulder is shorter than the back. Before basting the shoulder seam you should stretch the front until it becomes as near the length of the back as possible, taking care not to tear it, then baste the seam distributing the remaining fullness, if any, evenly.

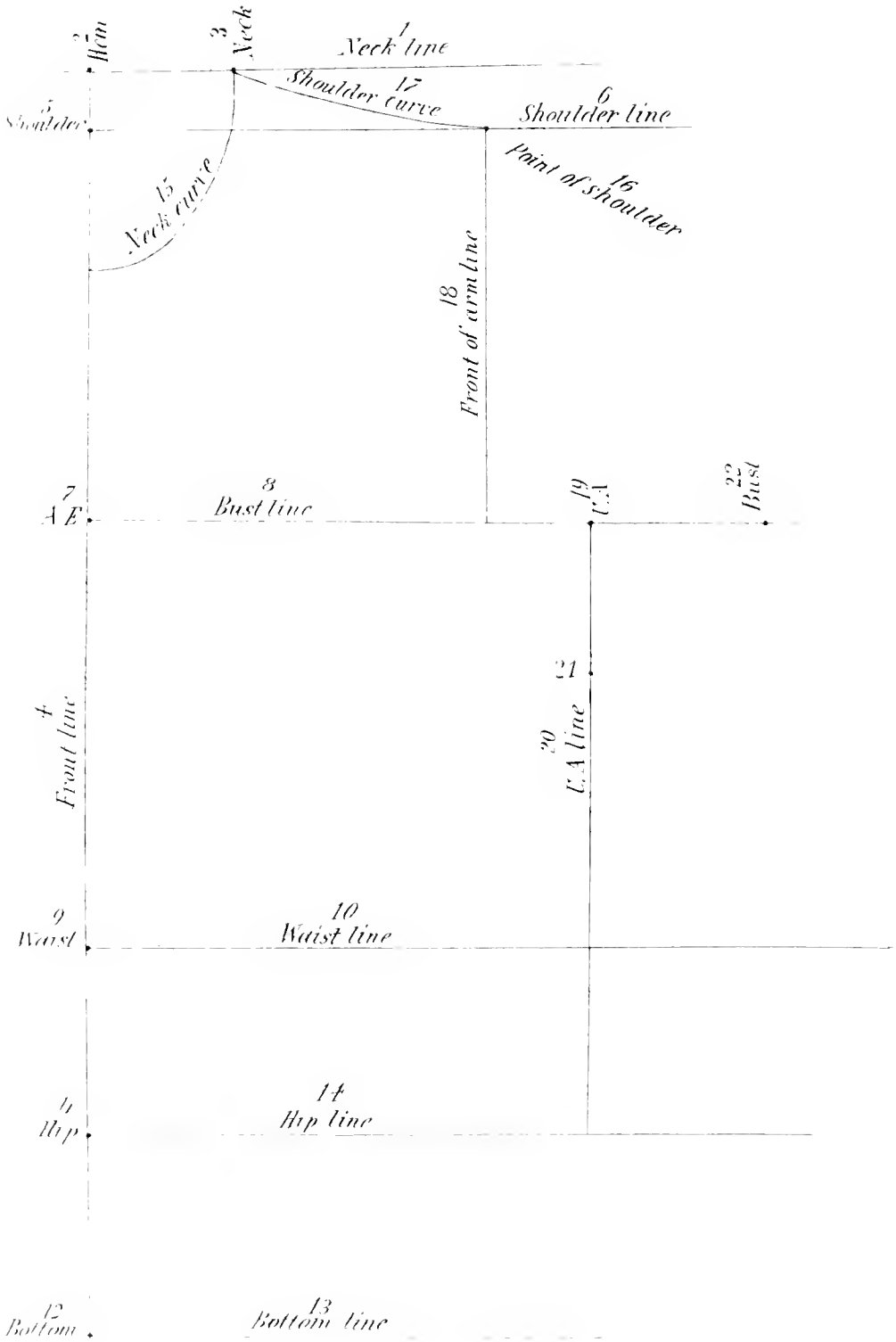
In basting the seams that join under arm piece to back arm piece hold the pieces even for about three inches above waist line, then full the back arm piece enough from there up to make the pieces even at A. E.

Your basting is not correctly done unless the notches all meet at waist line and seams all come out even at neck and A. E.

In basting the back seam in sleeve, the upper piece should be held a trifle full at the elbow. Baste the sleeve in so that the back seam of the sleeve will meet the seam between the back and back arm pieces of the dress or if the garment has no back arm piece, the highest part of the sleeve should be at shoulder seam. The sleeve should be held full all around the A. E., but a trifle fuller at the top.

Do not be satisfied with the fit of a dress that contains a few wrinkles. If it does not fit perfectly, some of the measures are incorrect. All you need is a careful study of the following hints together with practice in taking measures. If there are cross wrinkles in the back, back measures is too long, if it wrinkles under the arm, U. A measure is too long or hip size too small, if it is too narrow across the bosom, shoulder measure is too short, if it is too wide across the bosom, shoulder measure is too long, if it is too loose around the arm, A. E. measure is too loose, if it is too short in the waist, U. A. or back measure is too short.

The parts of the instructions printed in italics, refer to the places on the scale used in the instruction in which they are found.



DRAFTING FOR FRONT OF LADIES DRESS. FIG. 1.

INSTRUCTIONS FOR DRAFTING FRONT OF LADIES DRESS. FIG. 1.

1. Place the scale on the paper with the *right side* up *left end* about half an inch from left edge of paper and *straight edge* even with front edge of paper. Draw neck line along *left end* of scale.

2. Make hem dot on neck line as far from front edge of paper as you wish for width of hem.

3. Move the scale from you until the *left corner* comes to hem dot. Keep the *left end* even with neck line and make neck dot on neck line, neck measure from hem dot, using *front neck figures.*

4. Draw front line from hem dot along *straight edge* of scale

5. Make shoulder dot on front line shoulder measure, from hem dot using *front shoulder figures.*

6. Place the scale so that the *right corner* will be at shoulder dot, and *right end* even with front line. Draw shoulder line from shoulder dot along *straight edge* of scale.

7. Make A. E. dot on front line A. E. measure below shoulder dot using *half inch A. E. figures.*

8. Move the scale down until the *right corner* comes to A. E. dot. Keep the *right end* of scale even with front line and draw bust line from A. E. dot along *straight edge* of scale.

9. Make waist dot on front line U. A. measure below A. E. dot.

10. Move the scale down until the *right corner* comes to waist dot. Keep *right end* even with front line, and draw waist line from waist dot along *straight edge* of scale.

11. Make hip dot on front line half of U. A. measure below waist dot.

12. Make bottom dot U. A. measure below waist dot.

13. Turn the scale *wrong side* up, place *right corner* at bottom dot and *right end* even with front line. Draw bottom line from bottom dot along *straight edge* of scale.

14. Move the scale up until the *right corner* comes to hip dot. Keep the *right end* even with front line, and draw hip line from hip dot along *straight edge* of scale.

15. To draw neck curve, always place the scale so that the whole number in neck measure will be at neck dot, using *top neck figures* in *front neck curve.* If the neck measure be a whole number, let the same number come to front line using *front neck figures*. If the measure contains a fraction, make the fraction at front line by allowing $\frac{1}{2}$ space more than whole number for $\frac{1}{4}$ inch; 1 space more than whole number for $\frac{1}{2}$ inch, $1\frac{1}{2}$ spaces more than whole number for $\frac{3}{4}$ inch.

ILLUSTRATION.

If the neck measure is $11\frac{1}{4}$ place 11 in *top neck figures* at neck dot and half way between 11 and 12 at front line. If the measure is $11\frac{1}{2}$ place 11 in *top neck figures* at neck dot and 12 in *front neck figures* at front line. If the measure is $11\frac{3}{4}$ place 11 in in *top neck figures* at neck dot and half way between 12 and 13 in *front neck figures* at front line

16. Place the scale so that the *line in shoulder curve upon which front is found* will be at neck dot, and shoulder measure, using *figures in curve*, touch shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

17. Draw shoulder curve from neck dot to point of shoulder dot.

18. Place the scale so that the *right end* will be even with shoulder line and *right corner* at point of shoulder dot. Draw front of arm line from point of shoulder dot to bust line.

19. Move scale down until *right end* comes even with bust line, then move it from you until A. E. measure in *A. E. figures for front* comes to where front of arm line meets bust line. Make U. A. dot on bust line at *right corner* of scale.

20. Draw U. A. line from U. A. dot to hip line along *straight edge* of scale.

21. Make dot numbered 21 at the *star* on *straight edge* of scale.

22. Move the scale from you until A. E. measure in *U. A. A. E. figures* comes to U. A. dot. Make bust dot on bust line at *right corner* of scale.

To find back bust measure, place the scale so that bust measure, using *waist and bust line of figures* will be at front line. Keep the *straight edge* of scale even with bust line. The distance between the *right corner* and bust dot is back bust measure. Write this measure down in measure book.

To find 2nd part of back waist, place the scale so that the waist measure, using *waist and bust line of figures* will be at front line and *straight edge* of scale even with bust line. The distance between *right corner* of scale and bust dot is 2nd part of back waist. Write this measure in measure book.

To find back waist measure add 1st part to 2nd part. Write this measure in measure book.

waist and bust line of figures will be at front line and *straight edge* of scale even with bust line. The distance between *right corner* of scale and bust dot is 2nd part of back waist. Write this measure in measure book.

To find back waist measure add 1st part to 2nd part. Write this measure in measure book.

For persons who are full between the arms in front, instruction 19 is correct as it is; but for flat or narrow chested persons it will be best to make U. A. dot from $\frac{1}{8}$ to $\frac{3}{8}$ of an inch nearer front of arm line according to degree of flatness.

All the numbers of the instructions are printed on the diagrams, so that by finding the number on the diagram you can easily find the instruction by referring to the same number in the instructions.

INSTRUCTIONS FOR DRAFTING BACK OF LADIES DRESS, FIG. 2.

1. Place the scale with the *right side* up, *straight edge* about two inches from front edge of paper and *left end* about half an inch from edge of paper. Draw neck line along *left end* of scale.

2. Draw back line along *straight edge* of scale.

3. Make shoulder dot on back line shoulder measure below neck line using *back shoulder figures.*

4. Place the scale so that the *straight edge* above *back neck curve* will be even with neck line and neck measure, using the *figures in curve* at back line. Draw neck curve from neck line to back line.

5. Place the scale so that back measure will be where neck curve meets back line and *straight edge* of scale even with back line. Draw waist line along *right end* of scale.

6. Make $\frac{3}{8}$ inch dot on waist line $\frac{3}{8}$ of an inch from back line.

7. Make back waist dot on waist line waist measure from back line using *back waist figures.*

8. Make $\frac{1}{2}$ inch dot on waist line $\frac{1}{2}$ an inch from back waist dot.

9. Make waist dot on waist line back waist measure from back line.

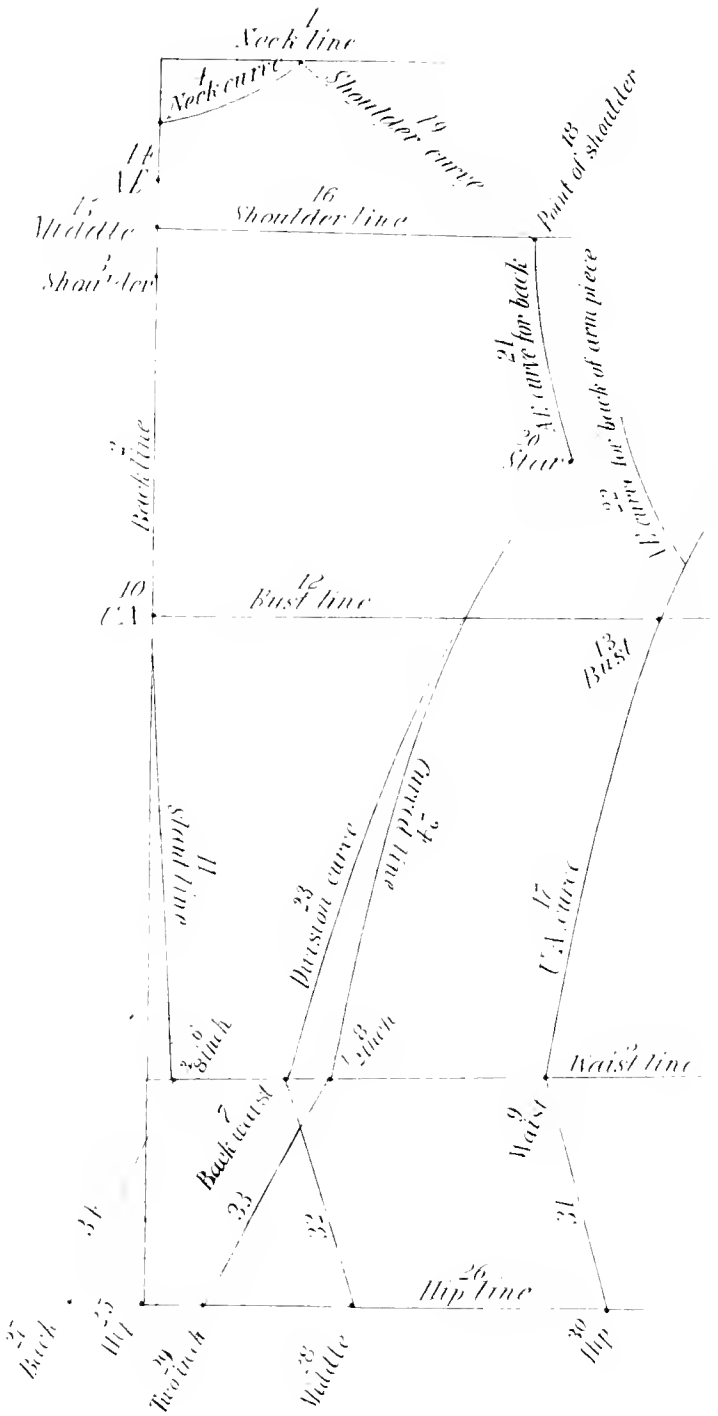
10. Make U. A. dot on back line U. A. measure above waist line.

11. Move scale until *right corner* comes to $\frac{3}{8}$ inch dot and *straight edge* touches U. A. dot. Draw slant line from U. A. dot to $\frac{3}{8}$ inch dot.

12. Place scale so that the *right corner* will be at U. A. dot and *right end* even with back line. Draw bust line from U. A. dot along *straight edge* of scale.

13. Make bust dot on bust line back bust measure from U. A. dot.

14. Move scale up until A. E. measure using *half inch A. E. figures* comes to U. A. dot. Keep *right end* of scale even with back line and make A. E. dot at *right corner* of scale.



DRAFTING FOR BACK OF LADIES DRESS, FIG.

15. Make middle dot halfway between A. E. dot and shoulder dot.

16. Move scale until *right corner* comes to middle dot. Keep *right end* even with back line and draw shoulder line from middle dot along *straight edge* of scale.

17. Place the scale so that the *head of arrow* in *shoulder curve* will be at bust dot and *curved edge* of scale touch waist dot. Draw U. A. curve from *top of shoulder curve* across bust dot to waist dot.

18. Place the scale so that *top of shoulder curve* will be at the place where neck curve meets neck line and shoulder measure in *shoulder curve* touch shoulder line. Make point of shoulder dot where shoulder measure in *shoulder curve* meets shoulder line.

19. Make shoulder curve from neck line to point of shoulder dot.

20. Place scale so that A. E. measure using the *figures in the top of A. E. curve for back* will be at point of shoulder dot and A. E. measure in *A. E. figures for back arm piece* touch U. A. curve. Make star dot at *star*.

21. Draw A. E. curve for back from point of shoulder dot to star dot.

22. Draw A. E. curve for back of arm piece along *curve for back of arm piece*.

23. Place the scale so that the *star* in *shoulder curve* will be at star dot and the *curved edge* of scale touch back waist dot. Draw division curve from *top of shoulder curve* across star dot to back waist dot.

24. Without changing the position of scale at bust line move the *left end* of scale from you until *curved edge* of scale touches at half inch dot on waist line. Draw line numbered 24 from bust line to $\frac{1}{2}$ inch dot.

25. Place the scale so that the *straight edge* will be even with waist line and *right end* even with back line. Make hip dot on back line half of U. A. measure below waist line.

26. Move scale down until *right corner* comes to hip dot. Keep *right end* even with back line and draw hip line from hip dot along *straight edge* of scale.

27. Move the scale toward you until one inch is at hip dot on back line. Make back dot at *right corner* of scale.

28. Make middle dot on hip line one inch farther from back line than back waist dot is from back line.

29. Make two inch dot on hip line two inches back of middle dot.

30. Make hip dot on hip line one inch farther from back line than waist dot is from back line.

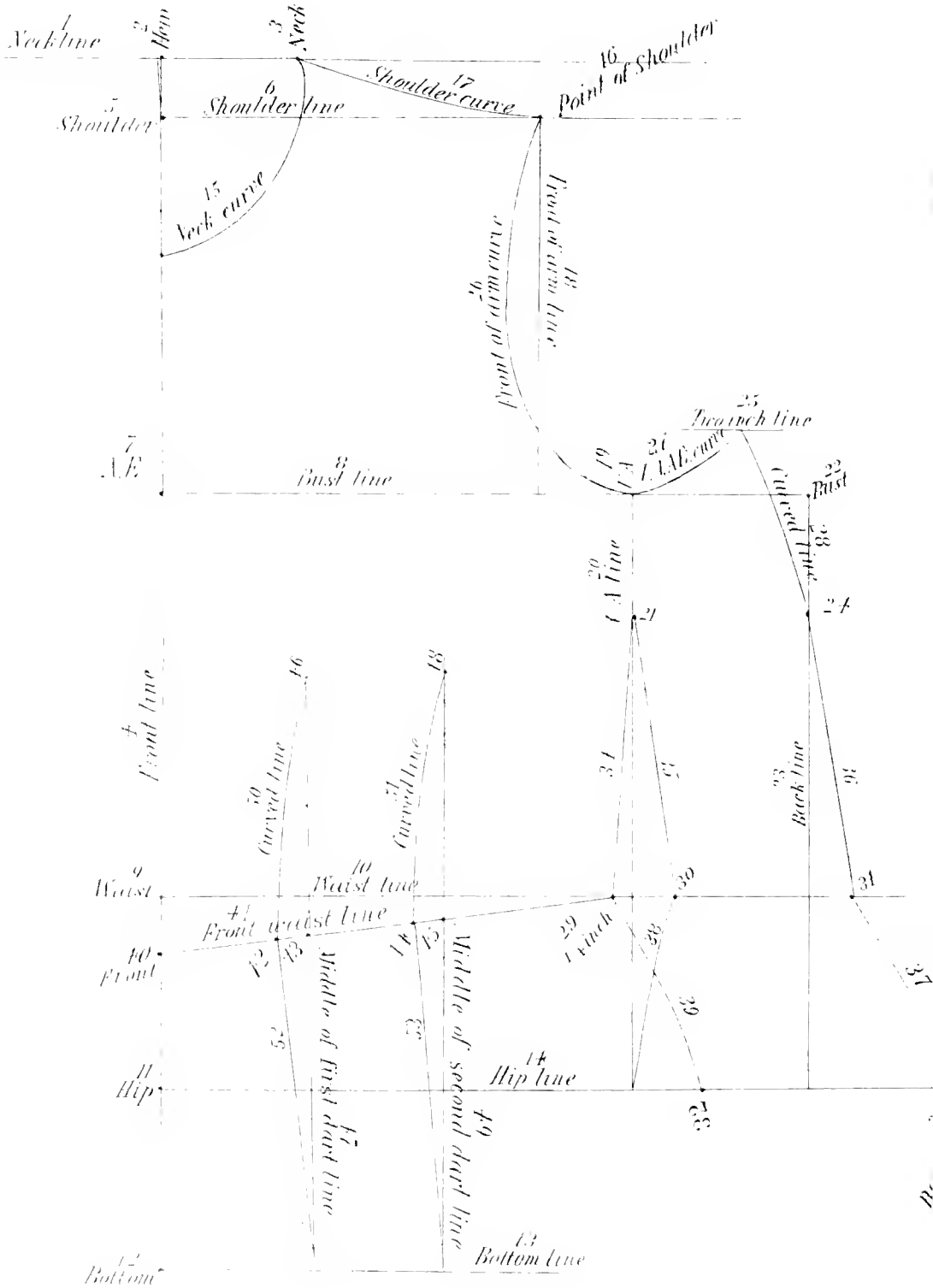
31. Use *straight edge* of scale and draw line numbered 31 from waist dot to hip dot.

32. Use *straight edge* of scale and draw line numbered 32 from back waist dot to middle dot.

33. Use *straight edge* of scale and draw line numbered 33 from $\frac{1}{2}$ inch dot to two inch dot.

34. Use *straight edge* of scale and draw line numbered 34 from $\frac{3}{8}$ inch dot to back dot.

To find back U. A. measure, place the scale so that the *right corner* will be at place where A. E. curve for back of arm piece meets U. A. curve and the *straight edge* of scale touch waist dot. Write this measure in measure book.



DRAFTING FOR FRONT OF LADIES DRESS, FIG. 3.

INSTRUCTIONS FOR DRAFTING THE FRONT OF LADIES DRESS, FIG. 3.

23. Place the scale so that the *right corner* will be at bust dot and *right end* even with bust line. Draw back line from bust dot to hip line.

24. Make dot numbered 24 on back line at *star*.

25. Move the scale up until back U. A. measure comes to waist line. Keep *straight edge* of scale even with back line and draw two inch line from *right corner* of scale for two inches along *right end* of scale.

26. Place the scale so that A. E. measure using *A. E. for front figures* in *front of arm curve* will be at U. A. dot and *front of arm curve* touch at point of shoulder dot. Draw front of arm curve from U. A. dot to point of shoulder dot.

27. Place the scale so that A. E. measure using the *figures in A. E. curve for U. A. piece* will be at U. A. dot and *the top of the curve* meet two inch line. Draw U. A. A. E. curve from U. A. dot to two inch line.

28. Turn the scale *wrong side* up and place it so that the *top of shoulder curve* will be at the place where U. A. A. E. curve meets two inch line and the *curved edge* of scale touch dot numbered 24. Draw curved line from where U. A. A. E. curve meets two inch line to dot numbered 24.

29. Make ¼ inch dot on waist line ¼ of an inch in front of U. A. line.

30. Make dot numbered 30 on waist line as far back of U. A. line as the *number* in *waist inches* opposite the hip size in *U. A. calculation* found on scale.

31. Make dot numbered 31 on waist line as far back of back line as dot numbered 30 is back of U. A. line.

32. Place the scale so that the *right end* will be even with hip line and hip size using *A. E. for front figures* at the place where U. A. line meets hip line. Make dot numbered 32 on hip line at the *right corner* of scale.

33. Make back hip dot on hip line as far back of back line as the *number* in *hip inches* opposite the hip size in *U. A. calculation*.

34. Use *straight edge* of scale and draw line numbered 34 from dot numbered 21 to ¼ inch dot.

35. Use *straight edge* of scale and draw line numbered 35 from dot numbered 21 to dot numbered 30.

36. Use *straight edge* of scale and draw line numbered 36 from dot numbered 31 to dot numbered 24.

37. Use *straight edge* of scale and draw line numbered 37 from dot numbered 31 to back hip dot.

38. Place the scale so that the *head of arrow in shoulder curve* will be at dot numbered 30 and *shoulder curve* touch where U. A. line meets hip line. Draw line numbered 38 from dot numbered 30 to hip line.

39. Turn scale *wrong side* up and place it so that *head of arrow* in *shoulder curve* will be at ¼ inch dot and *shoulder curve* touch dot numbered 32. Draw line numbered 39 from ¼ inch dot to dot numbered 32.

40. Place the scale so that front measure will be at neck dot and *right corner* touch front line. Make front dot on front line at *right corner* of scale.

41. Keep *right corner* of scale at front and move *left end* down until the

straight edge touches ¼ inch dot. Draw front waist line from front dot to ¼ inch dot.

42. Make dot numbered 42 on front waist line waist measure from front dot using *waist figures.*

43. Move scale toward you until the difference between waist and bust comes to the dot numbered 42, using the *first dart figures.* Make dot numbered 43 at half the difference between waist and bust, using *first dart figures.*

44. Make dot numbered 44 on front waist line at the *x* before *second dart figures.*

45. Make dot numbered 45 on front waist line at half the difference between waist and bust using *second dart figures.*

46. Place the scale so that the *right end* of scale will be even with bust line and *straight edge* touch dot numbered 45. Make dot numbered 46 half of U. A. measure from *right corner* of scale.

47. Draw middle of first dart line from dot numbered 46 to bottom line.

48. Move the scale from you until *straight edge* touches dot numbered 45. Keep *right end* of scale even with bust line and make dot numbered 48 one-half inch less than half of U. A. measure from *right corner* of scale.

49. Draw middle of second dart line from dot numbered 48 to bottom line.

50. Place the scale so that the *head of arron* in *shoulder curve* will be at dot numbered 46 and *curved edge* of scale touch dot numbered 42. Draw curved line numbered 50 from dot numbered 46 to dot numbered 42.

51. Move scale from you until *head of arrow* in *shoulder curve* comes to dot numbered 48 and *curved edge* of scale touches dot numbered 44. Draw curved line numbered 51 from dot numbered 48 to dot numbered 44.

52. Use *straight edge* of scale and draw line numbered 52 from dot numbered 42 to where middle of first dart line meets bottom line.

53. Use *straight edge* of scale and draw line numbered 53 from where middle of second dart line meets bottom line to dot numbered 44.

INSTRUCTIONS FOR FINISHING FRONT OF LADIES DRESS, WITH U. A. DART, FIG. 4.

23. Place the scale so that the *right end* will be even with bust line and hip size using *A. E. for front figures* at U. A. dot. Draw back U. A. line from *right corner* of scale to hip line.

24. Make dot numbered 24 on back U. A line at the *star.*

25. Make ¼ inch dot on waist line ¼ inch in front of U. A. line.

26. Make dot numbered 26 on waist line as far back of back U. A. line as the *number in waist inches* opposite the hip size in *U. A. calculation.*

27. Use *straight edge* of scale and draw line numbered 27 from dot numbered 21 to ¼ inch dot.

28. Use *straight edge* of scale and draw line numbered 28 from dot numbered 24 to dot numbered 26.

29. Use *straight edge* of scale and measure the distance from ¼ inch dot to where back U. A. line meets hip line. Make new waist dot on line numbered 28 as far from where back U. A. line meets hip line as ¼ inch dot is from where back U. A. line meets hip line.

30. Place the scale so that the *right end* will be even with back U. A. line and *straight edge* touch new waist dot. Draw new waist line from back U. A. line across new waist dot along *straight edge* of scale.

31. Move the scale up until U. A. measure comes to new waist line. Keep *right end* even with back U. A. line and draw new bust line from *right corner* of scale along *straight edge* of scale.

32. Draw line numbered 32 from *right corner* of scale along *right end* of scale until it meets back U. A. line.

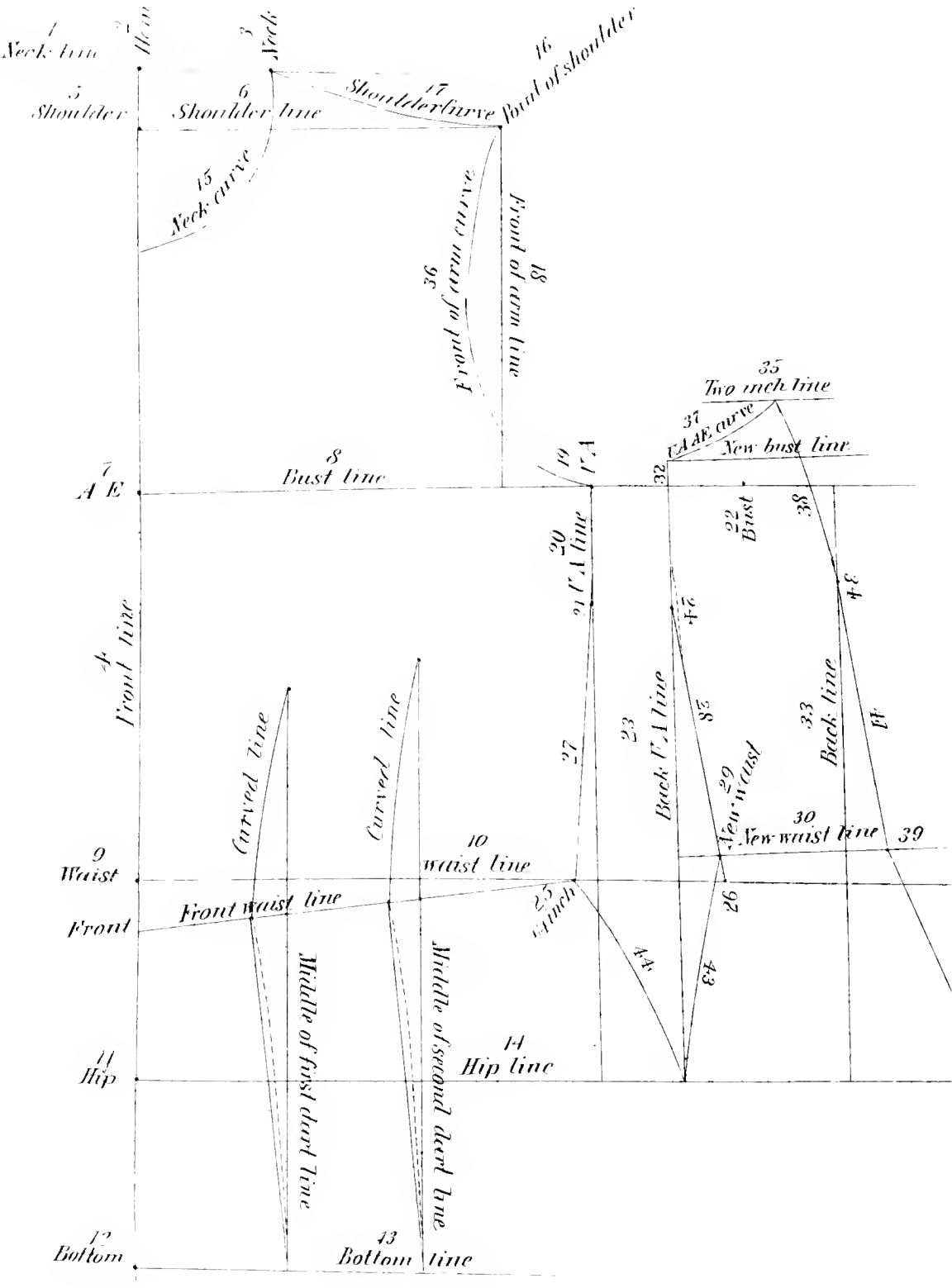
33. Place the scale so that the hip size using *A. E. for front figures* will be at bust dot and *right end* of scale even with bust line. Draw back line from *right corner* of scale to hip line.

34. Move the scale up until *right end* comes even with new bust line. Make dot numbered 34 on back line at *star.*

35. Move the scale up until back U. A. measure comes to new waist line. Keep *straight edge* of scale even with back line and draw two-inch line from *right end* of scale for two inches along *right end* of scale.

36. Place the scale so that A. E. measure using *A. E. for front figures* in *front of arm curve* will be at U. A. dot and *front of arm curve* touch at point of shoulder dot. Draw front of arm curve from U. A. dot to point of shoulder dot.

37. Place the scale so that A. E. measure using *figures in A. E. curve for U. A. piece* will be where line numbered 32 meets new bust line and the *top of curve* touch two-inch line. Draw U. A. A. E. curve from where line numbered 32 meets new bust line to two-inch line.



DRAFTING FOR FRONT OF LADIES DRESS,
WITH U. A. DART, FIG. 4.

38. Turn scale *wrong side* up and place it so that *top of shoulder curve* will be where U. A. A. E. curve meets two-inch line and *curved edge* touch dot numbered 34. Draw curved line from two-inch line to dot numbered 34.

39. Make dot numbered 39 on waist line as far back of back line as the *number in waist inches* opposite the hip size in *U. A. calculation.*

40. Make dot numbered 40 on hip line as far back of back line as the number in *hip inches* opposite the hip size in *U. A. calculation.*

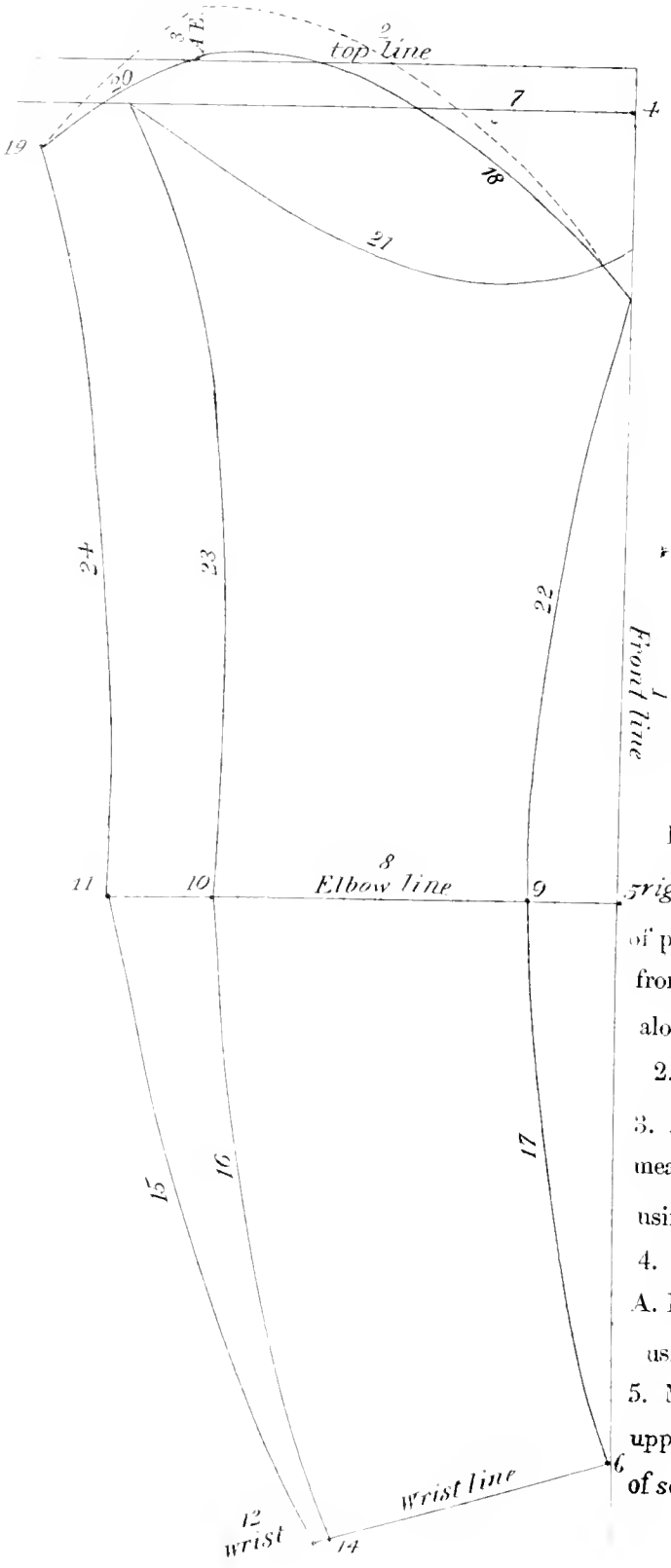
41. Use *straight edge* of scale and draw line numbered 41 from dot numbered 34 to dot numbered 39.

42. Use *straight edge* of scale and draw line numbered 42 from dot numbered 39 to dot numbered 40.

43. Place scale so that the *head of arrow* in *shoulder curve* will be at new waist dot and *shoulder curve* touch where back U. A. line meets hip line. Draw curved line numbered 43 from new waist dot to where back U. A. line meets hip line.

44. Turn scale *wrong side* up. Place it so that *head of arrow* will be at ¼ inch dot and *shoulder curve* touch where back U. A. line meets hip line. Draw curved line numbered 44 from ¼ inch dot to where back U. A. line meets hip line.

Apply front measure and make darts the same as in Fig. 3. (See Note 6.)



DRAFTING FOR SLEEVE, FIG. 5.

INSTRUCTIONS FOR DRAFTING SLEEVE, FIG. 5.

Place the scale on paper *right side* up, *right end* about an inch from left edge of paper, and *straight edge* about an inch from edge of paper. Draw front line along *straight edge* of paper.

2. Draw top line along *right end* of scale.

3. Make A. E. dot on top line A. E. measure from *right corner* of scale using *half inch A. E. figures.*

4. Make dot numbered 4 on front line A. E. measure from *right corner* of scale using *sleeve figures.*

5. Make dot numbered 5 on front line upper arm measure from *right corner* of scale.

6. Make dot numbered 6 on front line full arm measure from *right corner* of scale.

7. Move the scale down until *right corner* comes to dot numbered 4. Keep *straight edge* of scale even with front line and draw line numbered 7 from dot numbered 4 along *right end* of scale.

8. Move the scale until *right corner* comes to dot numbered 5. Keep *straight edge* of scale even with front line and make elbow line from dot numbered 5 along *right end* of scale.

9. Place the scale so that *elbow line* will be at dot numbered 5. Keep edge of scale even with elbow line and make dot numbered 9 on elbow line upper arm measure from front line using *upper arm figures.*

10. Make dot numbered 10 elbow measure from front line using *elbow figures.*

11. Move scale until *elbow line* comes to dot numbered 9. Keep edge of scale even with elbow line and make dot numbered 11 on elbow line elbow measure from dot numbered 9 using *elbow figures.*

12. Place the scale so that wrist measure using *front shoulder figures* will be at dot numbered 6. Keep *straight edge* of scale even with front line and make wrist dot wrist measure from *left corner* of scale using *wrist figures.*

13. Move the scale until the *left corner* comes to dot numbered 6 and *left end* touches wrist dot. Draw wrist line from dot numbered 6 to wrist dot.

14. Make dot numbered 14 on wrist line ¼ of an inch from wrist dot.

15. Place the scale so that *head of arrow* in *shoulder curve* will be at dot numbered 11 and *curved edge* of scale touch wrist dot. Draw curved line numbered 15 from dot numbered 11 to wrist dot.

16. Move scale toward you until *head of arrow* in *shoulder curve* comes to dot numbered 10 and *curved edge* of scale touches dot numbered 14. Draw curved line numbered 16 from dot numbered 10 to dot numbered 14.

17. Move scale toward you until the *head of arrow* in *shoulder curve* comes to dot numbered 9 and *curved edge* of scale touches dot numbered 6. Draw curved line from dot numbered 9 to dot numbered 6.

18. Place the scale so that the *line* in *front of arm curve upon which top of sleeve is found* will be at A. E. dot and A. E. measure using *A. E. sleeve figcures* touch front line. Draw curved line numbered 18 from A. E. dot to front line.

19. Place the scale so that the *top of sleeve curve* will be at A. E. dot. Keep *top edge* even with top line and make dot numbered 19 at A. E. measure.

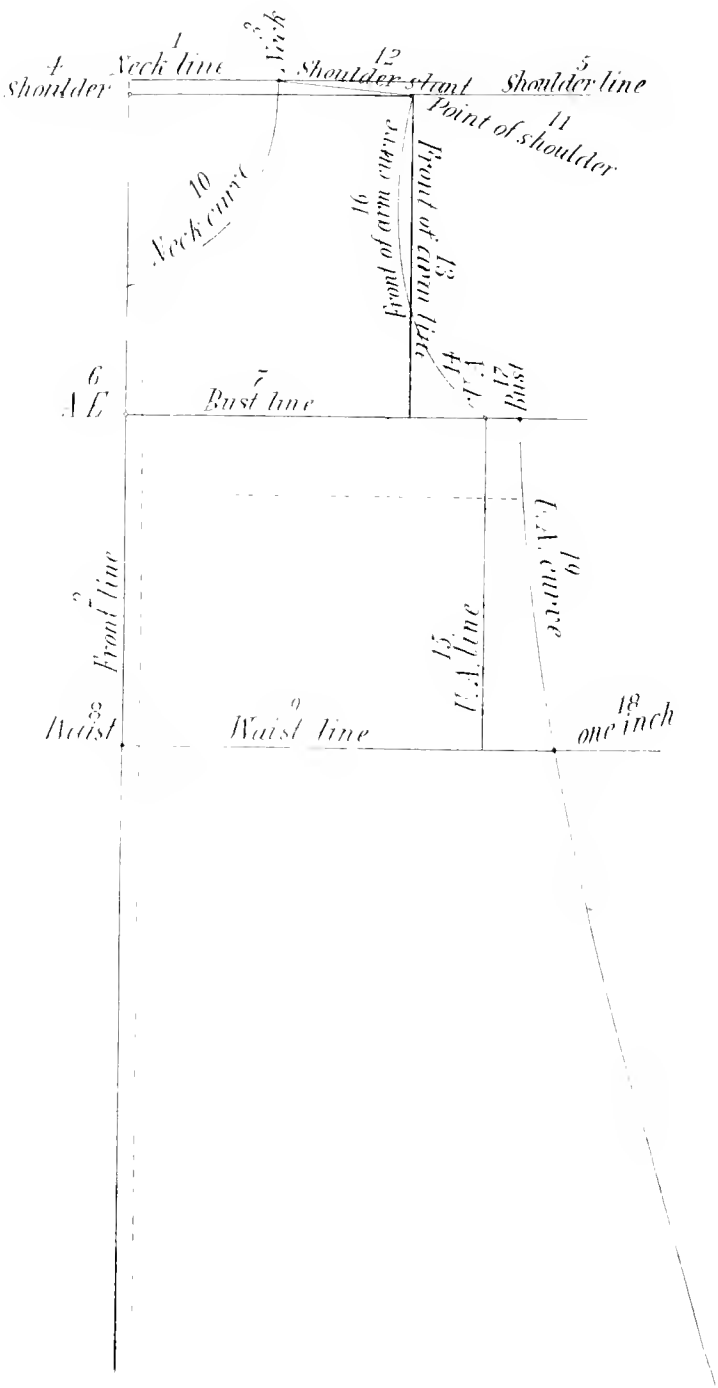
20. Draw curve numbered 20 from A. E. dot to dot numbered 19.

21. Place the scale so that the *line in front of arm curve upon which front is found* will be at frout line and the *line upon which top of sleeve is found* at curved line numbered 18 and A. E. measure in *A. E. sleeve figures* at line numbered 7. Draw curved line numbered 21 from line numbered 7 to front line.

22. Place the scale so that *head of arrow* in *shoulder curve* will be where curved line numbered 18 meets front line and *curved edge* of scale touch dot numbered 9. Draw curved line numbered 22 from front line to dot numbered 9.

23. Turu scale *wrong side* up. Place it so that the *top of shoulder curve* will be where curved line numbered 21 meets line numbered 7 and *curved edge* of scale touch dot numbered 10. Draw curved line numbered 23 from line numbered 7 to dot numbered 10.

24. Move scale until *head of arrow* in *shoulder curve* will be at dot numbered 19 and *curved edge* of scale touch dot numbered 11 and draw curved line numbered 24 from dot numbered 19 to dot numbered 11. (See Note 5.)



DRAFTING FOR FRONT OF INFANTS SLIP, FIG. 6.

INSTRUCTIONS FOR DRAFTING FRONT OF INFANTS SLIP, FIG. 6.

1. Place the scale on the paper *right side* up, *left end* about half an inch from left edge of paper *straight edge* half an inch from front edge of paper. Draw neck line along *left end* of scale.

2. Draw front line along *straight edge* of scale.

3. Make neck dot on neck line neck measure from *left corner* of scale using *front neck figures.*

4. Make shoulder dot half of shoulder measure from left corner of scale using *front shoulder figures.*

5. Place the scale so that the *right corner* of scale will be at shoulder dot. Keep *right end* even with front line and draw shoulder line from shoulder dot along *straight edge* of scale.

6. Make A. E. dot A. E. measure from shoulder dot using *half inch A. E. figures.*

7. Move scale down until *right corner* comes to A. E. dot. Keep *right end* even with front line and draw bust line from A. E. dot along *straight edge* of scale.

8. Make waist dot on front line A. E. measure below A. E. dot using *half inch A. E. figures.*

9. Move scale down until *right corner* of scale comes to waist dot. Keep *right end* even with front line and draw waist line from waist dot along *straight edge* of scale.

10. Make neck curve same as for ladies dress.

11. Place the scale so that the *right corner* will be at neck dot and shoulder measure touch shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

12. Draw shoulder slant from neck dot to point of shoulder dot.

13. Place the scale so that the *right corner* will be at point of shoulder dot and *right end* even with shoulder line. Draw front of arm line from point of shoulder dot to bust line.

14. Move the scale until A. E. measure in *A. E. figures for front* comes to where front of arm line meets bust line. Keep *right end* of scale even with bust line and make U. A. dot at *right corner* of scale.

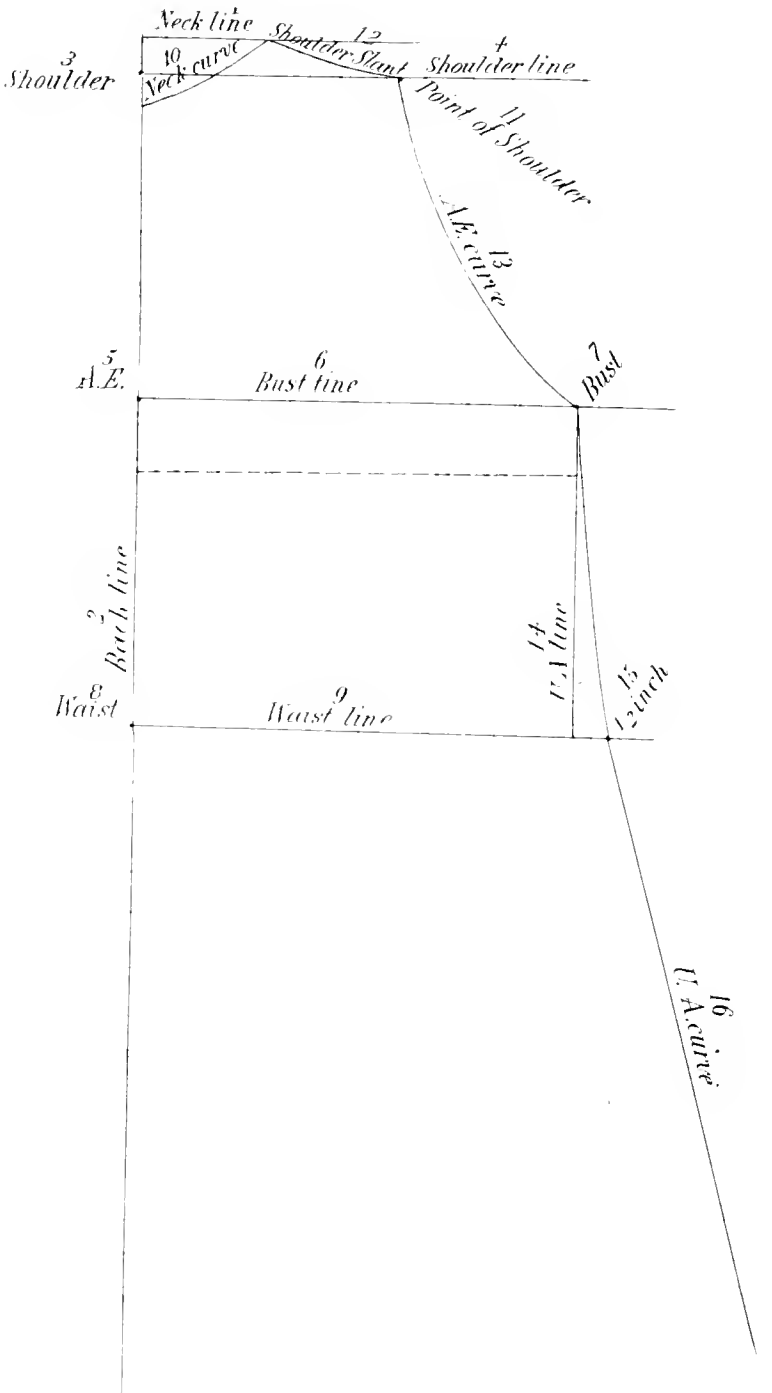
15. Draw U. A. line from U. A. dot to waist line.

16. Place the scale so that A. E. measure using *A. E. for front figures in front of arm curve* will be at U. A. dot and *front of arm curve* touch point of shoulder dot. Draw front of arm curve from point of shoulder dot to U. A. dot.

17. Make bust dot on bust line ½ inch from U. A. dot.

18. Make one inch dot on waist line one inch back of U. A. line.

19. Place the scale so that *head of arrow* in *shoulder curve* will be at bust dot and *curved edge* of scale touch one inch dot. Draw curved line from bust dot across one inch dot to the *16 in neck curve* for *back of shirt.*



DRAFTING FOR BACK OF INFANT'S SLIP, FIG. 7.

INSTRUCTIONS FOR DRAFTING THE BACK OF INFANT'S SLIP, FIG. 7.

1. Place the scale on the paper *right side* up *left end* about half an inch from left edge of paper and *straight edge* about half an inch from front edge of paper. Draw neck line along *left end* of scale.

2. Draw back line along *straight edge* of scale.

3. Make shoulder dot on back line shoulder measure from *left corner* of scale using *front shoulder figures.*

4. Place the scale so that the *right corner* of scale will be at shoulder dot. Keep *right end* even with back line and draw shoulder line from shoulder dot along *straight edge* of scale.

5. Make A. E. dot A. E. measure below shoulder dot using *half inch A. E. figures.*

6. Move scale down until *right corner* comes to A. E. dot. Keep *right end* even with back line and draw bust line from A. E. dot along *straight edge* of scale.

7. Make bust dot on bust line back bust measure from A. E. dot.

8. Make waist dot on back line A. E. measure below A. E. dot using *half inch A. E. figures.*

9. Move scale down until *right corner* comes to waist dot. Keep *right end* even with back line and draw waist line from waist dot along *straight edge* of scale.

10. Place the scale so that the *straight edge* above *back neck curve* will be even with neck line and neck measure, using the *figures in the curve* at back line. Draw neck curve from back line to neck line.

11. Place the scale so that the *right corner* will be where neck curve meets neck line and shoulder measure come to shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

12. Draw shoulder slant from neck line to point of shoulder dot.

13. Place the scale so that A. E. measure using the *figures* in the *top* of *A. E. curve for back* will be at point of shoulder dot and the *curve* touch at bust dot. Draw A. E. curve from point of shoulder dot to bust dot.

14. Place the scale so that the *right corner* will be at bust dot and *right end* even with bust line. Draw U. A. line from bust dot to waist line.

15. Make $\frac{1}{2}$ inch dot $\frac{1}{2}$ an inch from U. A. line.

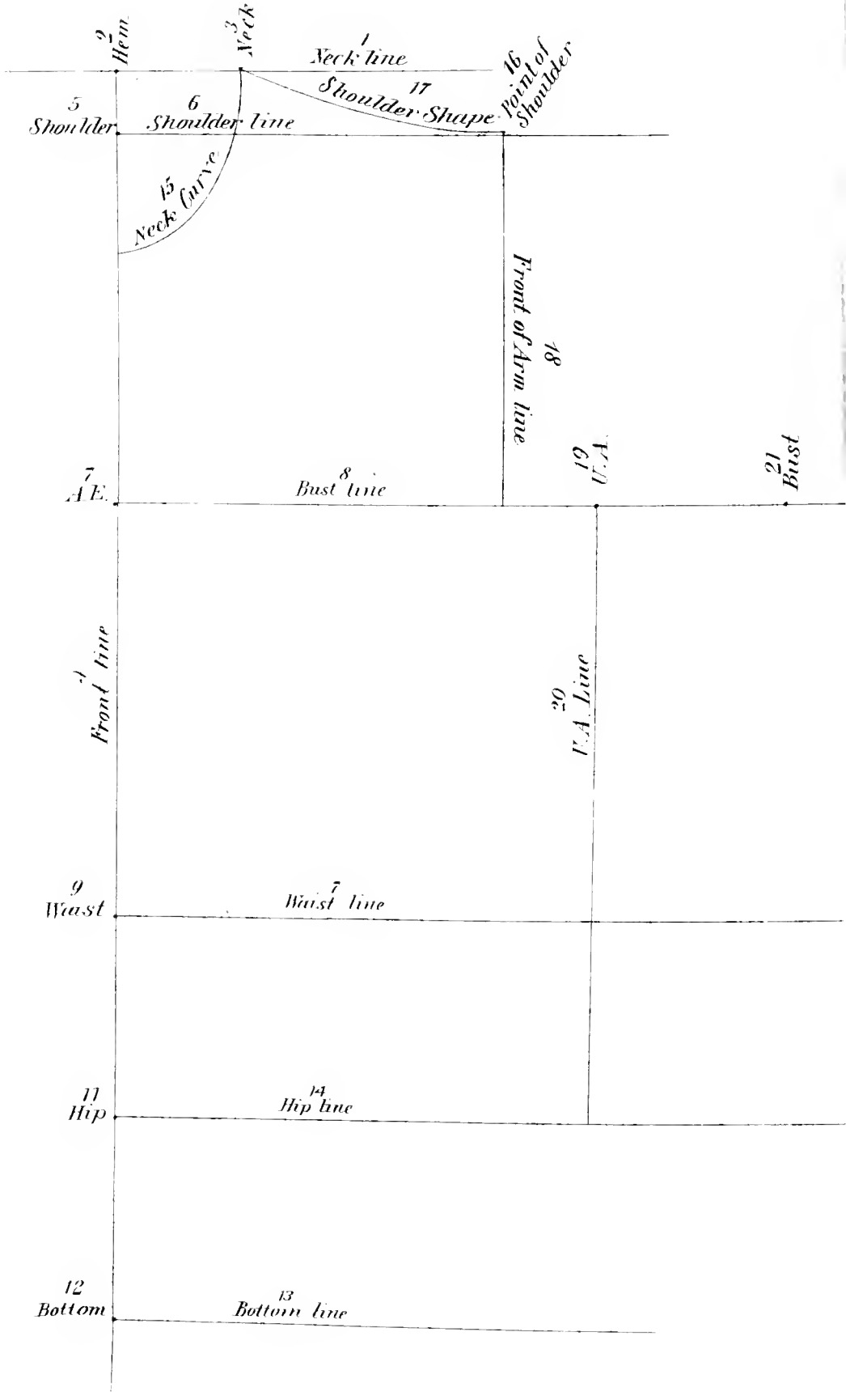
16. Place the scale so that the *head of arrow* in *shoulder curve* will be at bust dot and *curved edge* of scale touch $\frac{1}{2}$ inch dot. Draw U. A. curve from bust dot across $\frac{1}{2}$ inch dot to *16 in neck curve for back of shirt.*

In drafting an infants slip, the back bust is found the same as for a ladies dress.

The dotted line down the front which is $\frac{1}{4}$ of an inch from front line, shows how much must be taken off the front when the slip is made with the front cut whole.

The dotted lnes one inch below bust line show how deep to make the yoke when you wish a slip with yoke. A skirt for a yoke slip should be made straight.

If you wish a plain slip gathered at the neck, make allowance for gathers at front and back



DRAFTING FOR FRONT OF GIRL'S DRESS, WITH U. A. DART,
FIG. 8.

INSTRUCTIONS FOR DRAFTING FRONT OF GIRL'S DRESS, WITH U. A. DART, FIG. 8.

Girl's dresses are drafted the same as ladies until point of shoulder dot.

16. When shoulder measure is four inches or more, make point of shoulder dot the same as for ladies. When the shoulder measure is less than four, place the scale so that the *right corner* will be at neck dot and shoulder measure at shoulder line and make point of shoulder dot where shoulder measure meets shoulder line.

17. Draw shoulder shape from point of shoulder dot to neck dot.

Draw front of arm line make U. A. dot and draw U. A. line the same as for ladies dress.

21. Move the scale from you until A. E. measure using *U. A. A. E. figures* comes to U. A. dot and make bust dot on bust line at *right corner* of scale.

Find back bust and 2nd part of back waist the same as for ladies.

INSTRUCTIONS FOR DRAFTING BACK OF GIRL'S DRESS, FIG. 9.

Make neck line and back line the same as for ladies.

Make neck curve and waist line the same as for ladies.

6. Make $\frac{1}{4}$ inch dot on waist line $\frac{1}{4}$ inch from back line.

Make waist dot same as for ladies.

8. Make middle dot on waist line half way between waist dot and $\frac{1}{4}$ inch dot or you may make it farther back if you wish the backs narrow.

Make U. A. dot, slant line, bust line, bust dot, and A. E. dot the same as for ladies.

15. Draw shoulder line from A. E. dot.

Draw U. A. curve the same as for ladies.

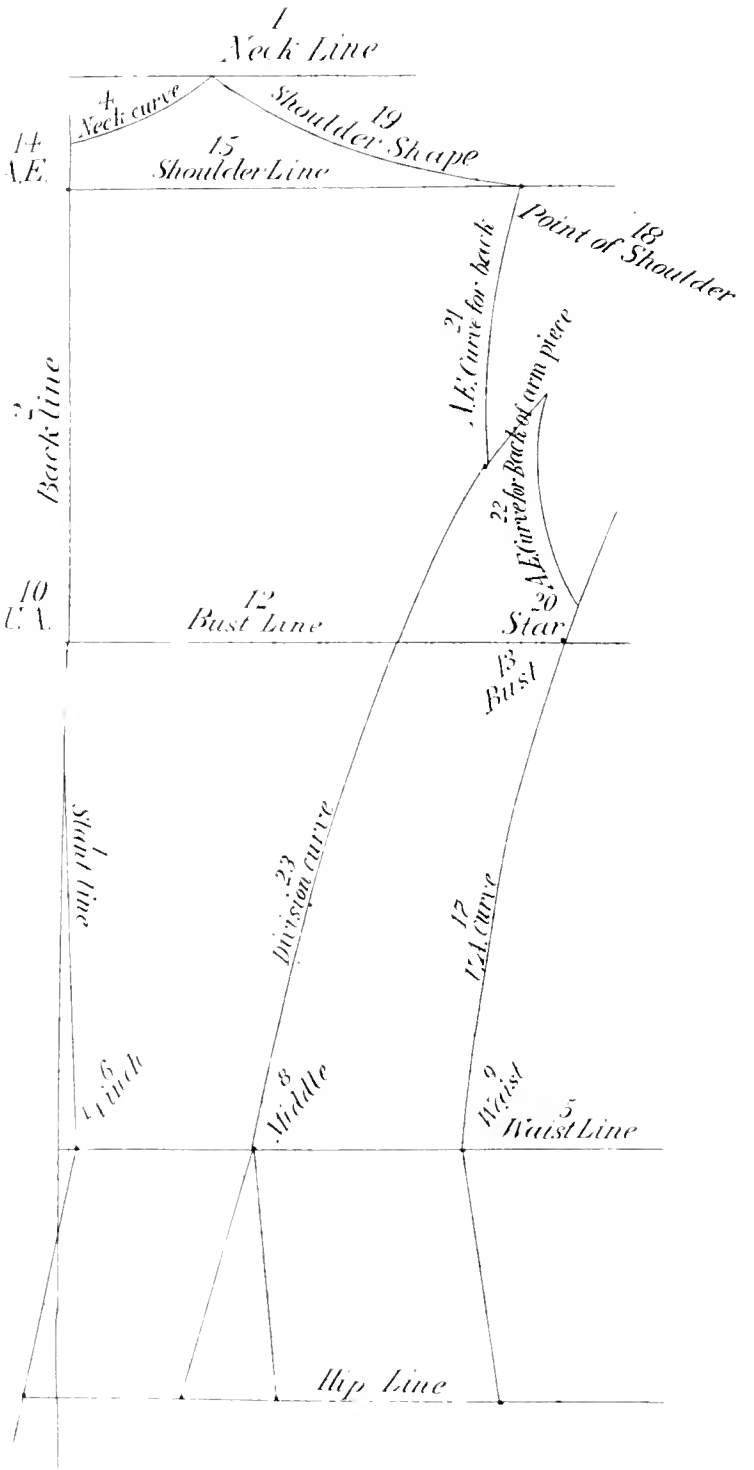
18. When the shoulder measure is four or more, make point of shoulder dot the same as for ladies. When the measure is less than four, place the scale so that the *right corner* will be where neck curve meets neck line and shoulder measure meet shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line..

19. Draw shoulder shape from neck line to point of shoulder dot.

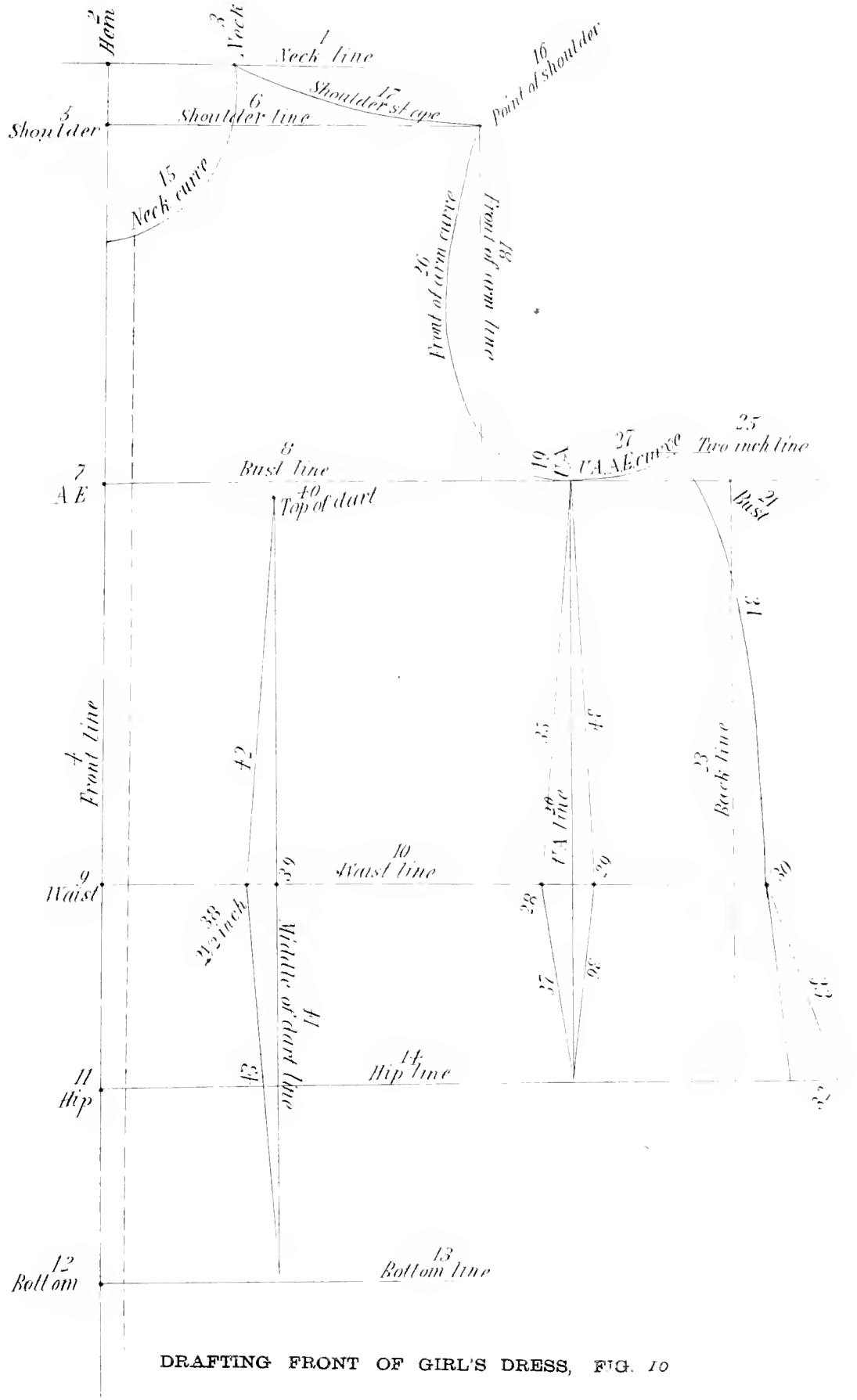
Make star dot, A. E. curve for back, and A. E. curve for back of arm piece the same as for ladies.

23. Place the scale so that the *star in shoulder curve* will be at star dot and *curved edge* of scale touch middle dot. Draw division curve from *top* of *shoulder curve* to middle dot.

Find back U. A. measure the same as for ladies.



DRAFTING FOR BACK OF GIRL'S DRESS, FIG. 9.



DRAFTING FRONT OF GIRL'S DRESS, FIG. 10

INSTRUCTIONS FOR DRAFTING FRONT OF GIRL'S DRESS, FIG. 10.

Make back line, two inch line, front of arm curve, and U. A. A. E. curve the same as for ladies.

Make dot numbered 28 as far front of U. A. line as the number in U. A. column opposite the difference in waist and bust in girl's dart calculation found in measure bock.

Make dot numbered 29 as far back of U. A. line as dot numbered 28 is front of U. A. line.

Make dot numbered 30 as far back of back line as dot numbered 28 is front of U. A. line.

Place the scale on the paper with the *wrong side* up *top of shoulder curve* where U. A. A. E. curve meets two inch line, and *curved edge* touching dot numbered 30. Draw line numbered 31 from two inch line to hip line.

Make dot numbered 32 one inch back of line numbered 31.

Use *straight edge* of scale and draw line numbered 33 from dot numbered 30 to dot numbered 32. Draw line numbered 34 from U. A. dot to dot numbered 29.

Draw line numbered 35 from U. A. dot to dot numbered 28.

Draw line numbered 36 from dot numbered 29 to where U. A. line meets hip line.

Draw line numbered 37 from dot numbered 28 to where U. A. line meets hip line.

Make $2\frac{1}{2}$ inch dot two and one half inches back of front line. Make dot numbered 39 as far back of $2\frac{1}{2}$ inch dot as number in front dart column opposite the difference between waist and bust in girls' dart calculation.

Place the scale so that the *right end* will be even with bust line and *straight edge* touch dot numbered 39. Make top of dart dot $\frac{1}{2}$ inch be low *right corner* of scale.

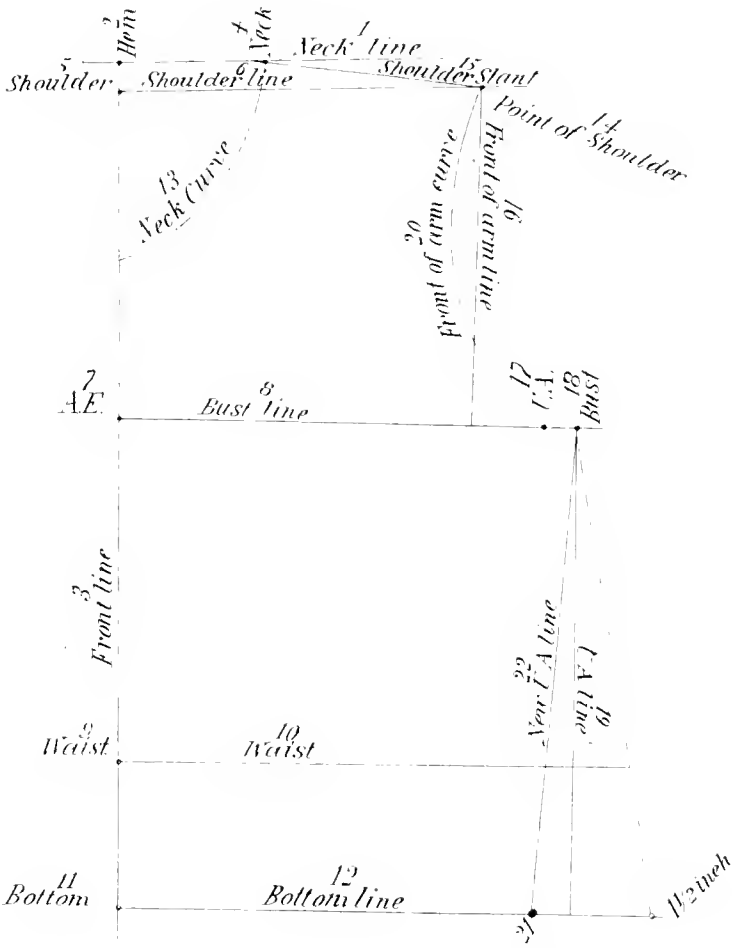
Draw middle of dart line from top of dart dot to bottom line.

Draw line numbered 42 from $2\frac{1}{2}$ inch dot to top of dart dot.

Draw line numbered 43 from $2\frac{1}{2}$ inch dot to where middle of dart line meets bottom line. (See Note 3.)

INSTRUCTIONS FOR DRAFTING FRONT FOR CHILD'S PLAIN WAIST, FIG. 11.

1. Draw neck line along *left end* of scale.
2. Make hem dot one inch from *left corner* of scale.
3. Draw front line from hem dot along *striaght edge* of scale.
4. Make neck dot neck measure from hem dot, using *front neck figures.*
5. Make shoulder dot half of shoulder measure below hem dot using *front shoulder figures.*
6. Draw shoulder line from shoulder dot.
7. Make A. E. dot A. E. measure below shoulder dot using *half inch A. E. figures.*
8. Draw bust line from A. E. dot.
9. Make waist dot U. A. measure below A. E. dot.
10. Draw waist line from waist dot.



DRAFTING FOR FRONT OF CHILD'S PLAIN WAIST, FIG. 11.

11. Make bottom dot two inches below waist dot.

12. Draw bottom line from bottom dot.

13. Draw neck curve same as for ladies

14. Place the scale so that the *right corner* will be at neck dot and shoulder measure touch shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

15. Draw shoulder slant from neck dot to point of shoulder dot.

16. Make front of arm line from point of shoulder dot to bust line.

17. Move scale from you until A. E. measure in *A. E. figures for front* comes to where front of arm line meets bust line. Keep *right end* even with bust line and make U. A. dot at *right corner* of scale.

18. Make bust dot ½ inch back of U. A. dot.

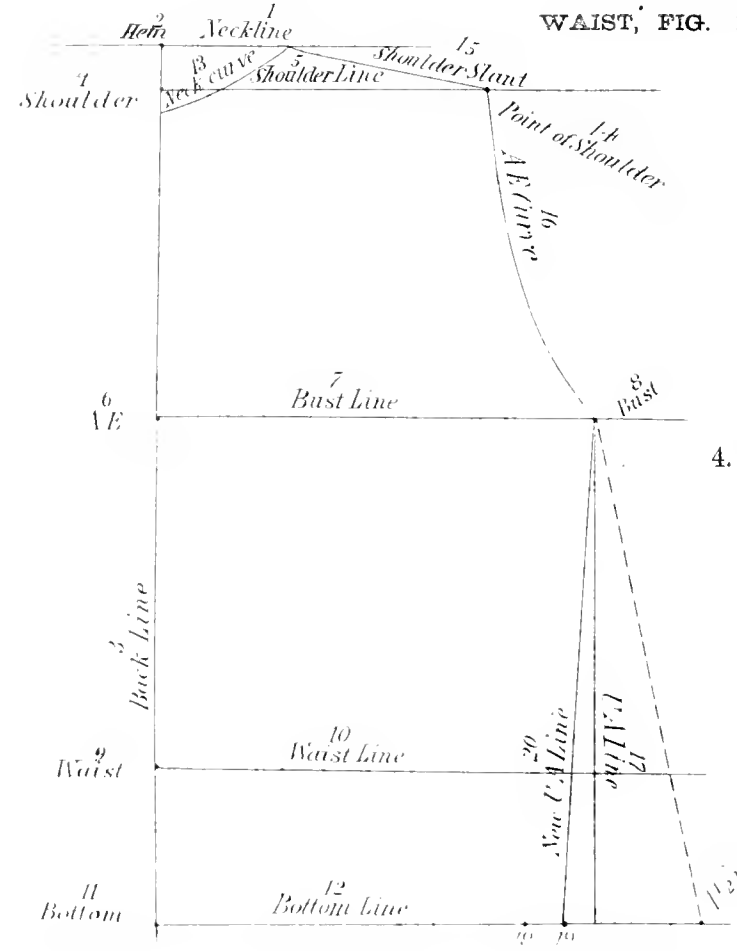
19. Draw U. A. line from bust dot to bottom line.

20. Place the scale so that A. E. measure using *A. E. for front figures* in *front of arm curve* will be at U. A. dot and *front of arm curve* touch point of shoulder dot. Draw front of arm curve from point of shoulder dot to U. A. dot.

Find back bust measure the same as for ladies.

Use waist measure and find back waist in the same way as you found back bust.

INSTRUCTIONS FOR DRAFTING BACK FOR CHILD'S PLAIN WAIST, FIG. 12.



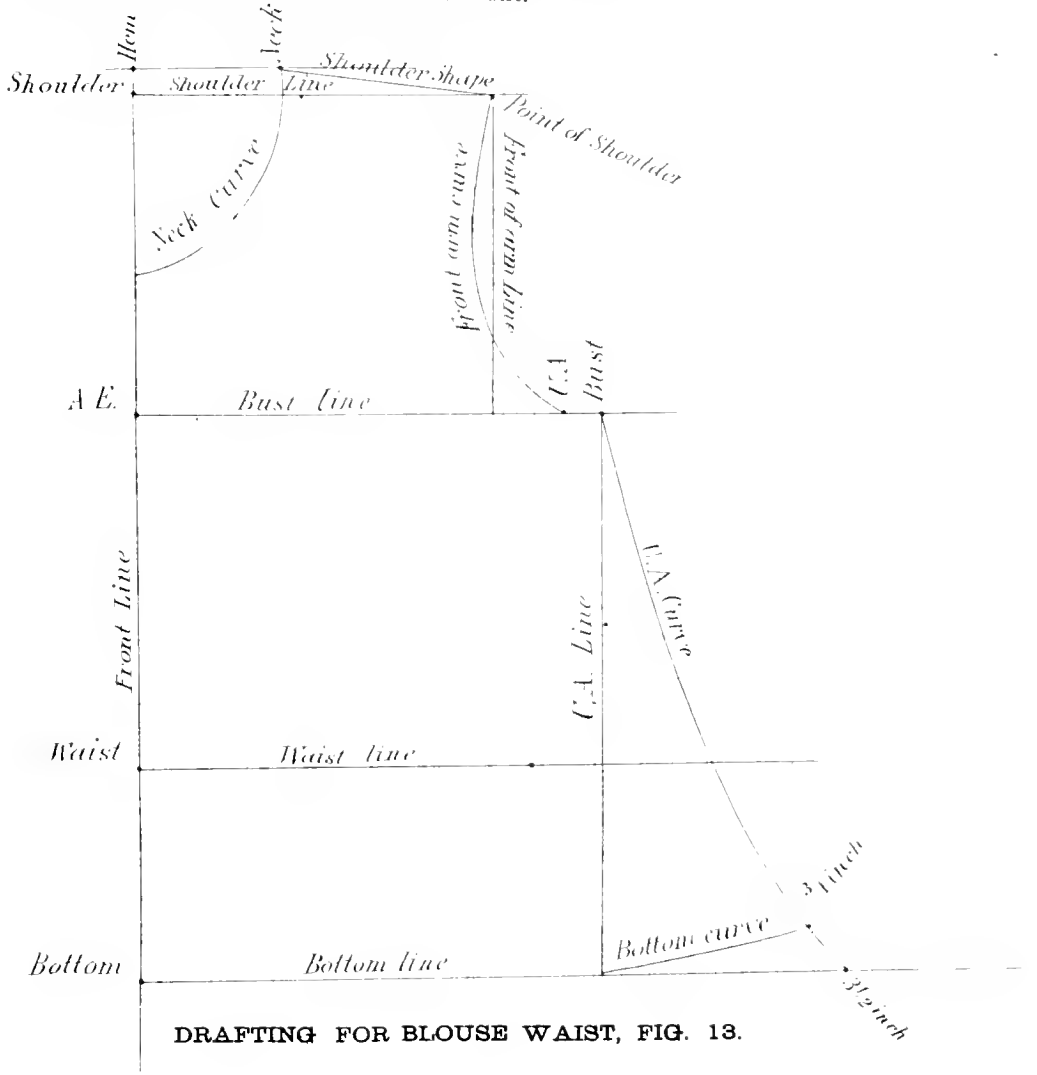
DRAFTING FOR BACK OF CHILD'S PLAIN WAIST, FIG. 12.

1. Draw neck line along *left end* of scale.
2. Make hem dot one inch from *left corner* of scale.
3. Draw back line from hem dot along *straight edge* of scale.
4. Make shoulder dot shoulder measure below hem dot using *front shoulder figures.*
5. Draw shoulder line from shoulder dot.
6. Make A. E. dot A. E. measure below shoulder dot using ***half inch A. E.*** *figures.*
7. Draw bust line from A. E. dot.
8. Make bust dot back bust measure from back line.
9. Make waist dot U. A. measure below A. E. dot.
10. Draw waist line from waist dot.
11. Make bottom dot two inches below waist dot.
12. Draw bottom line from bottom dot.
13. Make neck curve same as for ladies.
14. Place the scale so that the *right corner* will be where neck curve meets neck line and shoulder measure touch shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.
15. Draw shoulder slant from neck line to point of shoulder dot.
16. Place the scale so that A. E. measure, using the *figures* in *top of curve for back* will be at point of shoulder dot and *curve* touch bust dot. Draw A. E. curve from point of shoulder dot to bust dot.
17. Place the scale so that the *right corner* will be at bust dot and *right end* even with bust line Draw U. A. line from bust dot to bottom line.
18. Make dot numbered 18 back waist measure from back line.
19. Make dot numbered 19, half way between dot numbered 18 and U. A. line.
20. Draw new U. A. line from dot numbered 19 to bust dot.
21. To finish front drafting when dot 18 is inside of U. A. line, make dot 21 in front drafting as far inside of U. A. line as distance between dots numbered 18 and 19 in back, but when dot numbered 18 is outside of U. A. line, make dot numbered 21 in front as far outside of U. A. line as the distance between dots numbered 18 and 19 in back.

22. Draw new U. A. line from dot numbered 21 to bust dot.

The dotted lines are not used for a plain waist, but are to show you how to make looseness at waist when you wish a waist to gather on to waist band. These lines are made by making a dot 1½ inches outside of U. A. line and drawing a line from 1½ inch dot to bust dot.

When these lines are used, do not make dots numbered 18 and 19 in back and 21 in front or new U. A. lines in back and front.



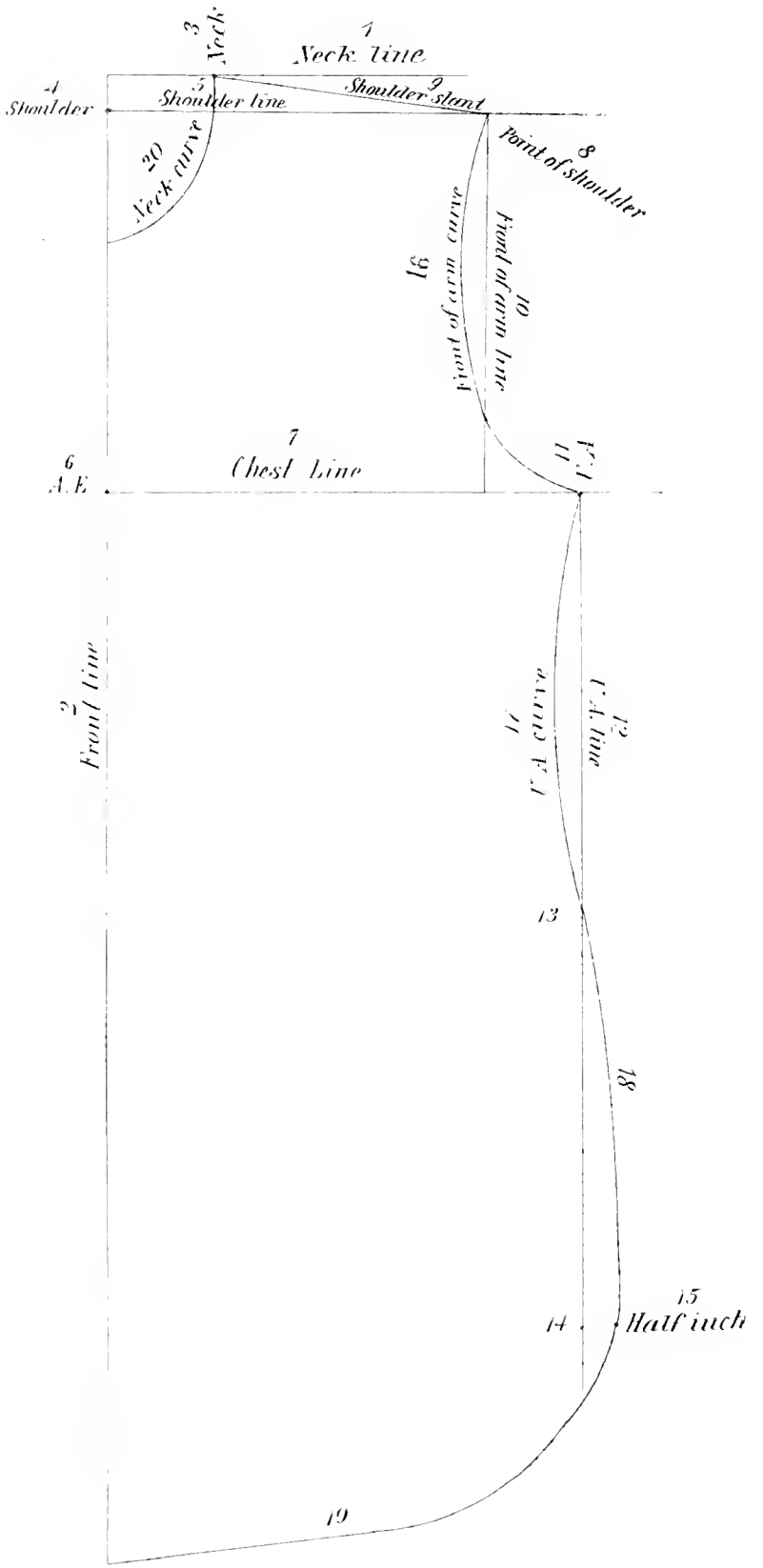
DRAFTING FOR BLOUSE WAIST, FIG. 13.

INSTRUCTIONS FOR DRAFTING BLOUSE WAIST, FIG. 13.

A blouse waist is drafted the same as a plain waist with the following variations.

1. Bottom dot is made 3½ instead of 2 in. below waist dot.
2. Waist measure is not taken or applied.
3. 3½ inch dot on bottom line is made 3½ inches from U. A. line.
4. U. A. curve is made by placing the scale so that *top of shoulder curve* will be at 3½ inch dot and *curved edge* touch bust dot, then drawing U. A. curve from 3½ inch dot to bust dot
5. ¾ inch dot is made on U. A. curve ¾ of an inch from 3½ inch dot.
6. Bottom curve is made by placing the scale so that *head of arrow* in shoulder curve will be at ¾ inch dot and *curved edge* touch bottom line where it meets U. A. line, then drawing bottom curve from ¾ inch dot to bottom.

These variations are applied the same in the back as the front.



DRAFTING FOR FRONT OF SHIRT, FIG. 14.

INSTRUCTIONS FOR DRAFTING FRONT FOR SHIRT, FIG. 14.

1. Place the scale on the paper so that the *left end* and *straight edge* will each be about ½ an inch from edge of paper. Draw neck line along *left end* of scale.

2. Draw front line along *straight edge* of scale.

3. Make neck dot two sizes less than neck measure using *front neck figures.*

4. Make shoulder dot half of shoulder measure below *left corner* of scale using *front shoulder figures.*

5. Draw shoulder line from shoulder dot.

6. Make A. E. dot A. E. measure below shoulder dot, using *half inch A. E. figures.*

7. Draw chest line from A. E. dot.

8. Place the scale so that the *right corner* will be at neck dot and shoulder measure touch shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

9. Draw shoulder slant from neck dot to point of shoulder dot.

10. Draw front of arm line from point of shoulder dot to chest line.

11. Place the scale so that the A. E. measure using *A. E. for front figures.* will be where front of arm line meets chest line and make U. A. dot at *right corner* of scale.

12. Draw U. A. line from U. A. dot along *straight edge* of scale.

13. Make dot numbered 13 half of full arm measure below U. A. dot.

14. Make dot numbered 14 half of full arm measure below dot numbered 13.

15. Make half inch dot ½ an inch outside of dot numbered 14.

16. Place the scale so that the 7 in *A. E. for front figures* in *front of arm curve* will be at U. A. dot and *curve* touch point of shoulder dot. Draw front of arm curve from U. A. dot to point of shoulder dot.

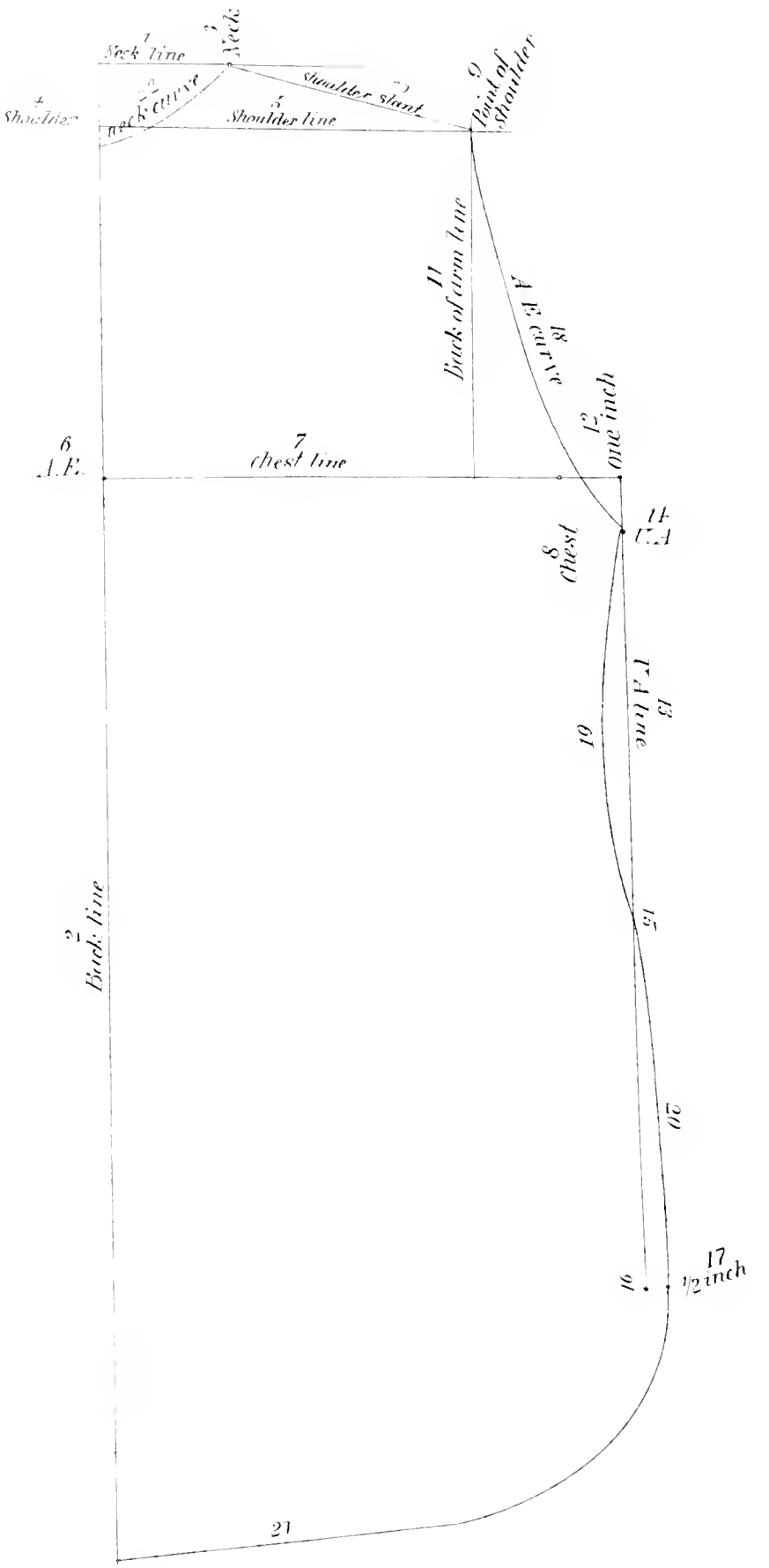
17. Place the scale *wrong side* up, so that the *top of shoulder curve* will be at dot numbered 13 and *curved edge* touch U. A. dot. Draw U. A. curve from U. A. dot to dot numbered 13.

18. Place the scale so that *head of arrow* in *top of shoulder curve* will be at dot numbered 13 and *curved edge* touch ½ inch dot. Draw curved line numbered 18 from dot numbered 13 to ½ inch dot.

19. Turn the scale over and place it so that the 7 in *wrist figures* will be at ½ inch dot. Keep *left end* even with line numbered 18 and draw curved line from ½ inch dot to front line.

20. Use *curve for front neck for shirt* and draw neck curve same as for ladies dress.

To find back chest measure, place the scale so that chest measure using *waist and bust line of figures* will be at front line and *straight edge* of scale even with chest line. The distance between U. A. dot and *right corner* of scale is back chest measure.



DRAFTING FOR BACK OF SHIRT, FIG. 15.

INSTRUCTIONS FOR DRAFTING BACK FOR SHIRT, FIG. 15.

1. Place the scale so that the *left end* and *straight edge* will each be about ½ an inch from edge of paper. Draw neck line along *left end* of scale.

2. Draw back line along *straight edge* of scale.

3. Make neck dot neck measure from *left corner* of scale using *front neck figures.*

4. Make shoulder dot shoulder measure below *left corner* of scale using *front shoulder figures.*

5. Draw shoulder line from shoulder dot.

6. Make A. E. dot, A. E. measure below shoulder dot using *half inch A. E. figures.*

7. Draw chest line from A. E. dot.

8. Make chest dot on chest line back chest measure from back line.

9. Place the scale so that the *right corner* will be at neck dot and shoulder measure touch at shoulder line. Make point of shoulder dot where shoulder measure meets shoulder line.

10. Draw shoulder slant from neck dot to point of shoulder dot.

11. Draw back of arm line from point of shoulder dot to chest line.

12. Make one inch dot one inch from chest dot.

13. Draw U. A. line from one inch dot along *straight edge* of scale.

14. Make U. A. dot one inch below one inch dot.

15. Make dot numbered 15 half of full arm measure below U. A. dot.

16. Make dot numbered 16 half of full arm measure below dot numbered 15.

17. Make ½ inch dot ½ an inch from dot numbered 16.

18. Turn scale *wrong side* up, and place it so that *top of shoulder curve* will be at U. A. dot, and *curved edge* of scale touch point of shoulder dot. Draw A. E. curve from point of shoulder dot to U. A. dot.

19. Place the scale so that *top of shoulder curve* will be at dot numbered 15 and *curved edge* touch U. A. dot. Draw curved line numbered 19 from U. A. dot to dot numbered 15.

20. Place the scale so that *head of arrow* in *shoulder curve* will be at dot numbered 15 and *curved edge* touch ½ inch dot. Draw curved line numbered 20 from dot numbered 15 to ½ inch dot.

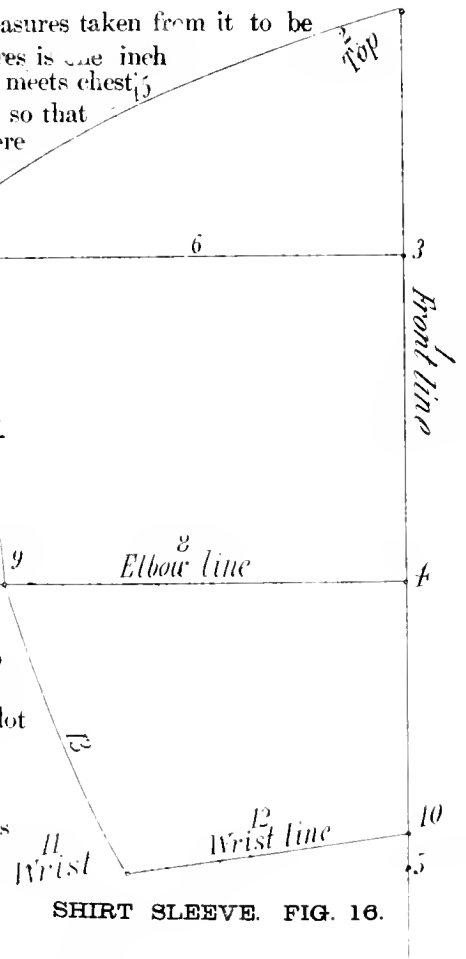
21. Turn the scale *right side* up, and place it so that the *6* in *wrist figures* will be at ½ inch dot. Keep *left end* even with line numbered 20 and draw line numbered 21 from ½ inch line to back line.

22. Use the *figures* in *back shirt neck* and make neck curve same as for front of shirt.

INSTRUCTIONS FOR DRAFTING SHIRT SLEEVE. FIG. 16.

After the back has been drafted there must be two measures taken from it to be used in drafting the sleeve. The first of these measures is one inch more than the distance from where back of arm line meets chest line to U. A. dot. It is found by placing the scale so that one inch from *right corner* will be at the place where back of arm line meets chest line and *straight edge* touch U. A. dot. The second of these measures is the distance between point of shoulder dot and U. A. dot. To find it place the scale so that the *right corner* will be at point of shoulder dot and *straight edge* touch U. A. dot.

1. Place the scale so that the *right end* and *straight edge* will each be ¼ of an inch from edge of paper. Draw front line along *straight edge* of scale.
2. Make top dot at *right corner* of scale.
3. Make dot numbered 3 as far from top dot as you found first measure to be.
4. Make dot numbered 4 upper arm measure from top dot.
5. Make dot numbered 5 full arm measure from top dot.
6. Move the scale until the *right corner* comes to dot numbered 3. Draw line numbered 6 from dot numbered 3.
7. Make dot numbered 7 as far from front line as you found second measure to be.



SHIRT SLEEVE. FIG. 16.

8. Move scale until *right corner* comes to dot numbered 4. Draw elbow line from dot numbered 4.

9. Make dot numbered 9 A. E. measure from front line, using *half inch A. E. figures.*

10. Move the scale until *left corner* comes to dot numbered 5. Make dot numbered 10 half of wrist measure from dot numbered 5, using *front shoulder figures.*

11. Make wrist dot wrist measure from front line, using *wrist figures.*

12. Move the scale and draw wrist line from wrist dot to dot numbered 10.

13. Place the scale so that the *head of arrow in shoulder curve* will be at dot numbered 9 and *curved edge* touch wrist dot. Draw curved line numbered 13 from dot numbered 9 to wrist dot.

14. Turn the scale *wrong side* up and place it so that the *top of shoulder curve* will be at dot numbered 7 and *curved edge* touch dot numbered 9. Draw curved line numbered 14 from dot numbered 9 to dot numbered 7.

15. Place the scale so that *top of shoulder curve* will be at dot numbered 7 and *curved edge* touch top dot. Draw curved line numbered 15 from dot numbered 7 to top dot.

INSTRUCTIONS FOR DRAFTING BOY'S TROUSERS. FIG. 17.

1. Place the scale so that the *right end* and *straight edge* will each be about ½ an inch from edge of paper. Draw front line along *straight edge of scale.*

2. Make top dot at *right corner* of scale.

3. Make 2 inch dot on front line two inches below top dot.

4. Move the scale until the *right corner* comes to 2 inch dot. Draw front waist line from 2 inch dot along *right end* of scale.

5. Make bottom dot on front line 2 inches more than outside leg measure below 2 inch dot.

6. Make hip dot on front line inside leg measure above bottom dot.

7. Place the scale so that the *right corner* will be at bottom dot and *right end* even with front line. Draw knee line from bottom dot along *straight edge* of scale.

8. Move the scale up until the *right corner* comes to hip dot. Draw hip line from hip dot along *straight edge* of scale.

9. Turn the scale *wrong side* up and place it so that the *right corner* will be at top dot and *right end* even with front line. Draw top line from top dot along *straight edge* of scale.

10. Place the scale so that the *figure 8 in shoulder curve* will be at top dot and *edge* of scale even with top line. Make front dot on top line thigh measure from top dot using *using upper arm figures.*

11. Move the scale back until *figure 8 in shoulder curve* comes to front dot. Make middle dot waist measure from front dot using *waist line of figures.*

12. Move the scale back until *figure 8 in shoulder curve* comes to middle dot. Make back waist dot on top line waist measure from middle dot using *waist line of figures.*

13. We allow for a hip dart by making a new back waist dot. If you do not wish to make a hip dart do not make any new back waist dot. If you wish to make a hip dart allow ½ an inch for a boy with a 20 inch waist and add ⅛ of an inch for every size larger than 20.

14. Place the scale so that the *right corner* will be at middle dot and the *right end* even with top line. Draw middle line from middle dot to knee line.

15. Make 9 inch dot on top line 9 inches from middle dot.

16. Move the scale down until *right corner* comes to where middle line crosses front waist line. Make 2½ inch dot 2½ inches below front waist line.

17. Make back ¼ inch dot on front waist line ¼ of an inch back of middle line.

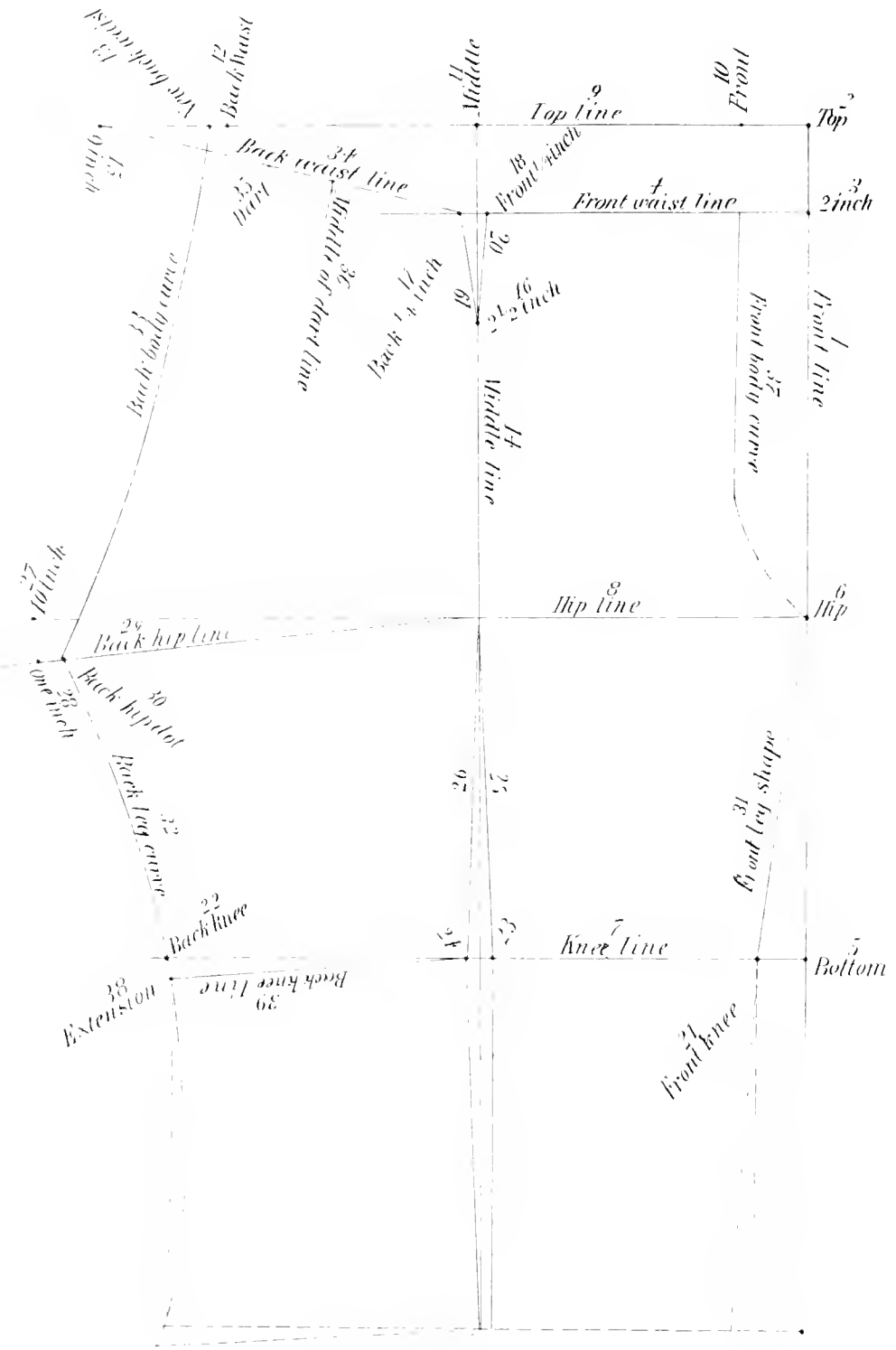
18. Make front ¼ inch dot ¼ of an inch in front of middle line.

19. Use *straight edge* of scale and draw line numbered 19 from back ¼ inch dot to 2½ inch dot.

20. Use *straight edge* of scale and draw line numbered 20 from front ¼ inch dot to 2½ inch dot.

21. Place the scale so that the *figure 8 in shoulder curve* will be at bottom dot and *edge* of scale even with knee line. Make front knee dot knee measure from bottom dot using *upper arm figures.*

22. Place the scale and make back knee dot 3½ inches more than knee measure from front knee dot.



DRAFTING BOY'S TROUSERS. FIG. 17.

23. Make dot numbered 23 on knee line ¼ of an inch in front of middle line.

24. Make dot numbered 24 on knee line ¼ of an inch back of middle line.

25. Use *straight edge* of scale and draw line numbered 25 from dot numbered 23 to where middle line crosses hip line.

26. Use *straight edge* of scale and draw line numbered 26 from dot numbered 24 to where middle line crosses hip line.

27. Make 10 inch dot on hip line 10 inches back of middle line.

28. Make 1 inch dot one inch below 10 inch dot.

29. Draw back hip line from where middle line crosses hip line across 1 inch dot and as far beyond as necessary to make trousers wide enough.

30. Add 5½ inches to thigh measure then place this measure at hip dot and let *right corner* of scale touch back hip line. Make back hip dot at *right corner* of scale.

31. To draw front leg shape for boys under 5 years of age use the *straight edge* of scale; for boys from 5 to 10 place the scale so that the *figure 5 in shoulder curve* will be at hip dot and *curved edge* touch front knee dot; for boys from 10 to 15 place the scale so that the *head of arrow* will be at hip dot and *curved edge* touch front knee dot. Draw front leg shape from hip dot to front knee dot.

32. To draw back leg curve for boys under 5 years of age turn the scale *wrong side* up and place it so that the *figure 5 in shoulder curve* will be at back hip dot, and *curved edge* touch back knee dot; for boys from 5 to 10, place the scale so that the *head of arrow* will be at back hip dot and *curved edge* touch back knee dot; for boys from 10 to 15, place the scale so that the *top of shoulder curve* will be at back hip dot and *curved edge* touch back knee dot. Draw back leg curve from back hip dot across back knee dot and for about two inches below knee line

33. To make back body curve for a boy under 5 years of age, place the scale so that the *5 in shoulder curve* will be at back hip dot and *curved edge* of scale touch new back waist dot; for a boy from 5 to 10, place the scale so that the *head of arrow* will be at back hip dot and *curved edge* of scale touch new back waist dot; for a boy from 10 to 15, place the scale so that the *top of shoulder curve* will be at hip dot and *curved edge* touch new back waist dot. Draw back body curve from back hip dot to new back waist dot.

34. Place the scale so that the *right corner* will be at back ¼ inch dot and *right end* touch 9 inch dot. Draw back waist line from back ¼ inch dot to 9 inch dot.

35. Make dart dot half way between back ¼ inch dot and where back body curve crosses back waist line.

36. Move the scale back until the *right corner* comes to dart dot. Keep *right end* even with back waist line and draw middle of dart line from dart dot, along *straight edge* of scale. For a boy with a 20 inch waist, middle of dart line should be 1¼ inches, and it should be ⅛ of an inch longer for each size larger than 20. When you cut out the trousers make a slash down middle of dart line. Sew a ¼ inch seam for a boy with a 20 inch waist and make the seam 1-16 of an inch larger for each size larger than 20.

37. Place the scale so that thigh measure using *top neck figures in back shirt neck* will be at hip dot and *curved edge* touch front dot. Draw front body curve from hip dot to front waist line.

38. Measure the distance between hip dot and front knee dot. Make extension dot as far from back hip dot as hip dot is from front knee dot.

39. Use *straight edge* of scale and draw back knee line from dot numbered 24 to extension dot.

The dotted lines show how to lengthen the knee trousers so as to make long trousers.

NOTE 1.

Misses dresses may be drafted the same as ladies, but are much nicer with a single bust dart. To draft a single dart, place the scale so that the *right corner* will be at front dot and *straight edge* even with front waist line. Make a dot on front waist line $2\frac{1}{2}$ inches from front line. (This dot may be made a little more or less than $2\frac{1}{2}$ inches to suit taste or style.) Move scale toward you until the difference between bust and waist comes to the dot which you have just made. Make a dot at the *o in front dart figures.* The middle of dart line is drawn the same as for ladies except that it should sometimes be made nearer bust line. If the difference between bust and waist is 8 or more, it should be half of U. A. measure below bust line and be made $\frac{1}{4}$ inch higher for each size smaller than 8. If the difference between bust and waist is less than 8, use the *4 in shoulder curve* in place of *head of arrow* to draw the curved line.

NOTE 2.

Cut wrist bands, waist bands and neck bands, 3 inches longer than measure.

NOTE 3.

Waists that are to be cut whole in front should have $\frac{3}{8}$ of an inch taken off the front as shown in drafting for front of girls' dress; the dotted line being the middle of front. If they are to be cut whole up the back, take the $\frac{3}{8}$ of an inch off the back.

NOTE 4.

Waists for full-gathered skirts need to be cut one inch below waist line.

NOTE 5.

To make a sleeve gathered at the top, curve the top piece higher as shown by the dotted line in drafting for sleeve. To draw this curve, make a dot from $\frac{1}{2}$ to $1\frac{1}{2}$ inches above A. E. dot according to the amount of gathers desired, and finish with the same *curves* as used in drawing lines numbered 18 and 20 in drafting for sleeve.

If you wish a sleeve to fit closely around the upper arm, make A. E. dot $\frac{1}{4}$ of an inch nearer front line.

NOTE 6.

Persons whose forms project below waist line require to have the darts curved at that place as illustrated by dotted lines in Fig. 4. Some will require more curve than others. Use the *head of arrow in shoulder curve* for those who are very large, the *figure 4* for medium size and the *figure 5* for those who show but a slight protuberance. Turn the scale *wrong side* up and place it so that the part of the curve required, will be at front waist line and *curved edge* touch bottom line. Draw curve from front waist line to bottom line.

When the hip size is large the U. A. piece will be much nicer if slightly curved at dot numbered 24 as shown by dotted line at that place.

DOBBS BROS.
LIBRARY BINDING

ST. AUGUSTINE
FLA.

LIBRARY OF CONGRESS
0 014 061 862 7